HITACHI

Small footprint, big impact

Variable Refrigerant Flow Systems
Mini VRF for new construction
and renovation projects

Cooling and heating

Please scan QR code to download
the catalog and more information

VRF SYSTEMS

HITACHI HERITAGE IN COOLING AND HEATING

1940

1950

Roller | Casting

1958

Compressor for refrigerators

1960

Commercial AC | Refrigerators
Compressor for REF | Casting

1970

Commercial AC | Refrigerators
Compressor for REF | Casting

1972

IDU: Floor Exposed type

1976

IDU: Ceiling Built-in type

1976

IDU: Ceiling Suspended type

1978

ODU: for low-ambient-temperature market

1979

World's First

ODU: PAC controlled by micro-computer built-in

1980

Commercial AC | Refrigerators
Compressors

1981

IDU: Wall Mounted type

1982

IDU: Ceiling Cassette type

1983

World's First

IDU: 4-way Ceiling Cassette type

1983

World's first

World's first PAC with Scroll Compressor built-in

1983

World's First

Scroll Compressor Production for AC unit

1984

VRF 1st generation

Hitachi's first VRF "High-Multi series
• Contains multiple reciprocating compressors
• Individual IDU control available

1986

VRF 2nd generation

Hitachi's 1st inverter-driven with VRF With Scroll Compressor built-in

1988

VRF 3rd generation

World's First

1 TON

Up to five IDUs

World 1st Inverter-driven VRF
Up to 115 Hz in 1986

2002

VRF 6th generation

6 TONS

Newly R410A adopted VRF Heat Pump and Heat Recovery

2011

World's First

Centrifugal VRF
Point: Outdoor unit that can be installed inside the building

Commercial AC | VRF | Compressors

2000

2015

Johnson Controls and Hitachi form the global joint venture

Johnson Controls

HITACHI
Air conditioning solutions

1990

Commercial AC | Compressors | VRF

1991

VRF 4th generation

World's First

2 TONS

Up to eight IDUs
(130% capacity!)

World's first IGBT Inverter built-in VRF leading to top-in-class quietest operation

5HP | 8HP and 10HP

1999

VRF 5th generation

6 TONS

Newly R407C adopted VRF
SET FREE FSG: heat-pump type
SET FREE FXG: heat-recovery type

Up to 12 IDUs !
(130% capacity!)

2010

Commercial AC | Compressors | VRF

2012

VRF 7th generation

11 TONS

2016

VRF 8th generation

20 TONS

Hitachi New Generation VRF
This New Generation VRF is 8th Generation VRF after 33 year's of experience

2015

36 TONS

7th Generation of VRF Technology: VRF Systems Debut in North American market

2016

8th Generation of VRF Technology: Mini VRF and Low Ambient VRF systems introduced into North America

2017

8th Genereation Technology introduced into North America

2018

Water-Source VRF Technology introduced into North America.
One of the largest capacity water-source systems on the market

48 TONS

MINI VRF SYSTEM

TABLE OF CONTENTS

Please scan QR code to download the catalog and more information

MINI VRF SYSTEM

ENJOY A BETTER TOMORROW

Mini VRF systems offer a host of benefits to you and your customers. These small-footprint, modular systems offer tremendous design flexibility, enabling you to solve multiple HVAC challenges. Your customers will appreciate the exceptional energy savings and individualized comfort they provide.

Design with freedom

A variety of standard modular components let you customize and size equipment to meet specific project requirements. As ductwork is generally needed only for ventilation, ducts can be smaller, reducing capital cost. Systems can easily be adapted as space is reconfigured. There is no need to remove and replace the original unit or reconfigure ductwork.

Install with ease

Hitachi Mini VRF systems are designed for quick and simple installation. Piping from the outdoor units can be connected from the front, back, side, or underneath. Indoor units are relatively small and light and easy to transport and handle. Service is simple too: systems need little maintenance beyond changing filters and cleaning coils. Removal of a single panel provides easy access to all components: control boards, electrical connections, compressor and piping.

Enjoy guilt-free comfort

These compact systems are among the most energy-efficient HVAC options available today, so customers never have to choose between comfort and savings.

Variable-speed compressors provide extremely high part-load efficiency. The systems essentially eliminate the energy loss that occurs in conventional, ducted central systems that may account for as much as 30% of energy consumption. In fact, these green technology systems can help customers attain LEED® certification points for resource efficiency.

Occupants will enjoy unparalleled comfort with Hitachi Mini VRF Systems. Temperature can be set individually for multiple zones to suit different needs. Once the temperature is set, the system's variable-speed compressors and precise modulation help maintain it within a narrow range, ensuring consistent comfort. Occupants will also appreciate the system's whisper-quiet operation.

Plan on years of worry-free service

Hitachi Mini VRF Systems feature the Hitachi-designed, high-efficiency scroll compressor. This exclusive technology is known for its excellent reliability, efficiency and low noise level.

Hitachi Mini VRF Systems boast impressive efficiency ratings

SEER
Seasonal Energy Efficiency Ratio
SEER up to **24.1**
SEER2 up to **23.1**

EER
Energy Efficiency Ratio
EER up to **16.7**
EER2 up to **16.7**

HSPF
Heating Seasonal Performance Factor
HSPF up to **12.8**
HSPF2 up to **10.8**

COP
COP up to **5.12**
COP2 up to **5.12**

MINI VRF SYSTEM

ENJOY A BETTER TOMORROW (Continued)

You are in control

You set the level of control with options that range from wired individual controllers to gateways for building automation systems.

A wide selection of thermostats (controllers) are available for indoor fan coil units from simple units with on/off, setpoint, load and speed settings, to programmable units that enable scheduling. Wireless units are also available to remotely control conditions.

Central station controllers for larger projects provide remote control and scheduling of the entire system from one or more control points.

Adapters (gateways) enable control of large buildings or campuses through building automation systems such as Facility Explorer®.

The ideal choice for multiple applications

The many advantages offered by the Hitachi Mini VRF System make it the optimal choice for a wide range of new construction and retrofit projects including:

- **Buildings with multiple zones** that have different comfort needs such as hotels, schools, medical office buildings and commercial office buildings
- **Historical building renovations** in which ducted HVAC options are severely limited and the basic building structure must not be disturbed
- **Residential buildings** including apartments, townhomes, single-family homes and condominiums
- **Light commercial buildings** such as small retail shops and churches

Industry certified

Hitachi VRF Systems are Intertek ETL Listed (Canada & USA), signifying that they comply with the standard of Heating and Cooling Equipment (ANSI/ UL 1995 and CAN/CSA C22.2 No. 236-11, 4th Edition, October 14, 2011). Our Mini VRF products are tested under AHRI 210/240.

The systems are also certified by the Air Conditioning, Heating and Refrigeration Institute.

ENERGY STAR

ENERGY STAR certified product (Only for three and four ton)

Proper sizing and installation of equipment is critical to achieve optimal performance.

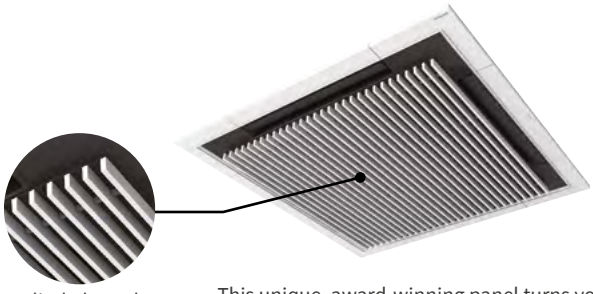
LATEST INNOVATIONS

SILENT-ICONIC™ 4-WAY CASSETTE PANEL

Create the perfect atmosphere

Enjoy the unobtrusive design of ducted indoor units and the cost savings of cassette units with a sophisticated solution that will please the visually discerning and budget-minded alike. The Silent-Iconic 4-Way Cassette Panel gives you the best of both worlds.

The four flaps of the Silent-Iconic are crafted to reduce visual impact yet maintain precise airflow control. Further minimizing the cassette's appearance, the central inlet of the unit is louvred, so it integrates perfectly into the ceiling. Air vents are tastefully hidden, so the indoor unit blends seamlessly into its surroundings.

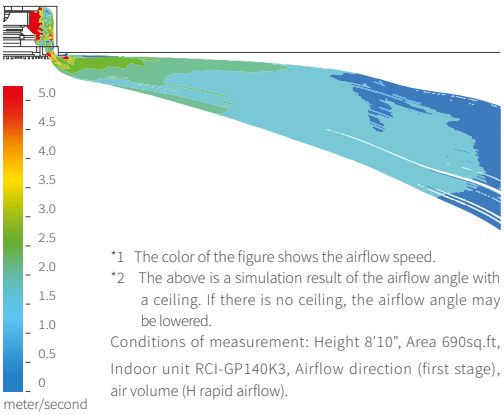


Blind-shaped air inlet port

This unique, award-winning panel turns your indoor unit into a design statement.

Looks and comfort delivered

Used with the Hitachi 4-Way Cassette, air is dispersed uniformly through four artfully concealed ducts for optimal comfort throughout the space.



*1 The color of the figure shows the airflow speed.
*2 The above is a simulation result of the airflow angle with a ceiling. If there is no ceiling, the airflow angle may be lowered.
Conditions of measurement: Height 8'10", Area 690sq.ft, Indoor unit RCI-GP140K3, Airflow direction (first stage), air volume (H rapid airflow).

Installation is a breeze

Corners slide into place for hassle-free fastening.

Designed with attention to detail

The small space between the panels and the ceiling creates a 'lighter' visual effect.

reddot winner 2021
best of the best

DESIGN AWARD 2020

The Silent-Iconic 4-Way Cassette Panel has won design excellence awards in prestigious international competitions. Best of all, it provides a cost-effective solution that is as functional as it is good-looking. Available in white or black, the Silent-Iconic offers style and cost-savings in one optimal solution.

MINI VRF SYSTEM

EVERYTHING YOU NEED FOR SUCCESS

Effective training, intuitive design and selection software, advanced logistics timely delivery and easily-accessible documentation form a powerful support package that adds substantial value to Hitachi Mini VRF Systems.

Expert instructors and hands-on experience for your team

Comprehensive training programs provide knowledge and skills necessary to effectively and efficiently deploy Hitachi Mini VRF technology. Our world-class training centers offer a full VRF course curriculum with specialized modules and topics that help:

- Designers select and configure the right equipment easily and accurately
- Installers learn the proper procedures and complete jobs accurately, on time and on budget
- Service technicians maintain, troubleshoot and repair systems efficiently

The training centers include a dedicated VRF laboratory to provide hands-on experience with the various systems, components and controls. Videos and webinars supplement classroom learning on specific subjects and refresh and enhance the skills of your design, installation and service teams.

Hitachi Mini VRF training programs help deliver peace of mind so that your staff is prepared to support your business with the knowledge to compete in a growing industry.

EVERYTHING YOU NEED FOR SUCCESS (Continued)

Right-size systems with intuitive selection software

The Hitachi Mini VRF selection software intuitively guides you step by step through equipment selection so that can quickly and accurately choose an appropriate and cost-effective system configuration for each application. The web-based program allows access from any computer or tablet. The software helps you:

- Design accurate final system drawings, including piping and wiring diagrams in an easy, quick, step by step process
- Accurately select systems using a System Sizing Analysis. The process starts with the indoor fan coil units so that outdoor units are optimally sized. Proprietary algorithms calculate the system size using data input on the indoor units, load and measurements, so your system does not include capacity that will go unutilized
- Use intuitively-designed features and functionality that make the design process easy, fast and accurate. You can select options and accessories quickly, easily and accurately without the need for additional information or calculations

EVERYTHING YOU NEED FOR SUCCESS (Continued)

Expect the right equipment on site and on time

Ample inventory and advanced order management and logistics systems can help you complete installations in a timely manner. Consistent service and predictable deliveries help you prevent delays waiting for essential components and enable you to set a project timeline and schedule labor efficiently. Our state-of-the-art main distribution center is located near Memphis, Tennessee, where UPS and FedEx have hubs. This enables us to provide fast, accurate deliveries and simplifies expedited shipments.

Find information you need 24/7

Easy access to product information helps designers, contractors and service personnel work accurately and efficiently. Our secure web portal, HVACNavigator.com, provides product documentation, technical and service manuals, troubleshooting guides, brochures, videos, technical support, contact information and more.

Let's go to work – together

Hitachi Mini VRF Systems can be configured to meet your project requirements and deliver exceptional performance. Heat pump units with DC inverter-driven compressors offer energy savings and the ability to scale to size. Indoor units for ducted or non-ducted applications offer optional motion sensing control for even greater energy savings. Additional energy savings can be achieved with the EconoFresh Economizer Indoor Unit which provides free cooling when conditions permit. A host of options, controls and accessories help ensure a custom fit for your project and years of comfort for your customers.

Enjoy the advantages of working with our team while bringing the many benefits of Hitachi Mini VRF Systems to your customers.

MINI VRF SYSTEM

ADVANTAGES FOR YOUR ENTIRE TEAM

Summary of features and benefits

	FEATURES	ADVANTAGES	BENEFITS
ARCHITECT / SYSTEM DESIGNER	**Compact footprint**	• Ideal for areas with strict lot-line codes	• Expand options for positioning outdoor units
	Modular components	• Require less indoor space than conventional systems	• Simplify design process • Allow easy updates in reconfigured or expanded space
	Non-ducted systems	• Ultimate in design flexibility • Reduce clearance between building floors	• Reduce system costs • Ideal for historic renovations
	Ducted systems	• Accommodate retrofit by making use of existing duct infrastructure • Suit unique buildings that include ducted and non-ducted areas	• Reduce overall construction costs
	Heat pump VRF systems	• Precisely heat or cool multiple zones	• Provide extreme flexibility in system design
	Comprehensive training	• Tailor modules to specific job functions	• Enable effective equipment selection and specification
	Web-based system selection software	• Intuitive functionality that simplifies and speeds designs • Accessible from any computer or tablet	• Allow confident selection and right-sizing of systems

	FEATURES	ADVANTAGES	BENEFITS
MECHANICAL CONTRACTOR/INSTALLER	**Installation simplicity**	• Outdoor unit piping can be connected from front, side, back or underneath.	• Reduce installation time and cost
	Comprehensive training	• Tailor modules to specific job functions	• Enable professional, high-quality, timely installation
	Consistent, reliable product delivery	• Ensure correct components are delivered to job sites on time	• Enhance installation efficiency • Allows efficient labor scheduling
	Easy maintenance access	• All components easily accessible	• Speed up time spent on maintenance, repair and troubleshooting
	Easy access to product information	• All product information is available on HVACNavigator.com	• Simplify and speed maintenance, troubleshooting and repairs
	Compact and lightweight outdoor units	• Easy to handle	• Reduce installation time and cost

VRF SYSTEM

ADVANTAGES FOR YOUR ENTIRE TEAM (Continued)

		FEATURES	ADVANTAGES	BENEFITS
BUILDING OWNER	System	**Single phase power supply**	• Flexibility in selection of buildings and locations	• Mini VRF can be used in most light commercial and residential applications
		Designed for optimized efficiency	• SEER is industry's highest for VRF systems • Highest COP of Mini VRF systems on the market	• Save energy
		Optimum individualized comfort	• Connect up to eight Indoor Units to one Outdoor Unit	• Efficient heating or cooling • Set-temperatures per zone increase occupant comfort
		Noise reduction preference mode	• User can choose from several noise reduction levels	• Extremely quiet (sound ratings as low as 44 dBA for Outdoor Units; 28 dBA for Indoor Units) • Ideal where outdoor units are positioned on side of building or in locations where there are noise restrictions
	Compressor	**DC inverter-driven scroll compressor**	• Engineered to deliver the optimum efficiency at normal load conditions	• A leader in the Mini VRF system industry • Highest SEER • Highest COP
		Compressor modulation	• Smoothly deliver only the exact amount of refrigerant needed for the load	• Allow fine control for optimum comfort • Save energy
	Outdoor Units	**Demand control**	• Users can select several power-saving levels	• Limit electric demand charges • Limit equipment wear and tear • Reduce noise
		Compact and lightweight	• Can be placed in tight areas such as patios and balconies	• Can save valuable space
	Indoor Units	**As high as .74 in. W.G. static pressure in ducted systems**	• Offer adjustable speeds to match the static pressure requirement	• Flexibility to accommodate long or short ductwork runs
		Optional motion and radiant sensors	• Set back temperature when space is unoccupied, increasing efficiency even further	• Save energy
	Controls	**H-Link II Protocol**	• Control multiple indoor and outdoor units from one control point • Add versatility to connect various central control options	• Maximize indoor comfort • Save energy • Improve system management
		Temperature control	• Adjust in 1°F increments • Adjustable fan speeds	• Auto-adjust for daylight saving time • Provide options to satisfy multiple projects/ buildings
		VRF Smart Gateway	• Enable control of VRF systems by way of a building management system (e.g., Facility Explorer®) for almost unlimited control of buildings in campus enterprises	• Reduce integration time and expense with automatic data formatting • Full BMS capabilities enable superior control of all system components • Access Wi-Fi for 24/7 monitoring and control from laptops, tablets and smartphones

OUTDOOR UNITS

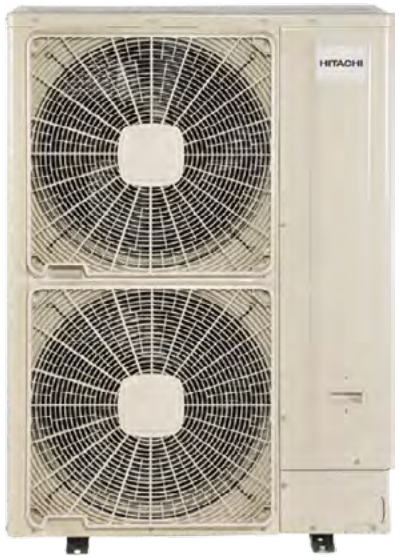
MINI VRF OUTDOOR UNITS

SINGLE-PHASE 208/230V (HEAT PUMP)

Meet diverse application needs with Hitachi Mini VRF Outdoor Units. Units are available in a range of capacities, providing exceptional design freedom. Each unit can operate multiple indoor units. Building occupants will appreciate the unit's industry leading quiet operation.

OUTDOOR UNITS

MINI VRF OUTDOOR UNITS



Exceptionally efficient Hitachi Mini VRF systems provide design versatility and flexibility and quiet personalized comfort. Single phase (208-230V) three-, four- and five-ton heat pump systems with inverter compressor technology provide cooling up to 118°F and heating down to -4°F ambient. Multiple indoor unit options enable individual comfort control of up to eight rooms/zones.

Mini VRF 208/230V HP Heat Pump Units		3 Ton	4 Ton	5 Ton
Mini VRF Outdoor Unit Model		HVAHP036B21S	HVAHP048B21S	HVAHP060B21S
Performance	Rated Cooling Capacity (Btu/h)	36,000	48,000	60,000
	Rated Heating Capacity (Btu/h)	40,000	54,000	64,000
	Operating Range* – Cooling (°F)	23 to 118		
	Operating Range* – Heating (°F)	-4 to 73**		
	Power Supply (V/ph/Hz)	208-230 / 1 / 60		
Configurations	Number of Indoor Units	1 to 6	1 to 8	1 to 8
Refrigerant Piping	Maximum Piping Length (ft)	492		
	Maximum Total Piping Length (ft)	984		
	Maximum Vertical Distance, IU to OU — OU above IU / OU below IU (ft)	164 / 131		
	Maximum Vertical Distance Between Indoor Units (ft)	49		
Dimensions	H x W x D (in)	54 5/16 x 37 3/8 x 14 9/16		

* For more details and limitations, please consult Hitachi sales team or refer to product manuals.
** The default value is 59°F. Please refer to engineering manual to increase it to 73°F.

Hitachi Mini VRF Outdoor Units

Hitachi Mini VRF Heat Pump units offer an extended operating temperature range: outdoor ambient temperature as low as 23°F (-5°C) in the cooling mode and as low as -4°F (-20°C) in the heating mode.

All outdoor units feature:

- **Long refrigerant piping lengths** – up to 492 feet piping length
- **Advanced defrost cycle operation** in the heating mode
- **Ability to operate up to eight indoor units** on a single piping network
- **Power-saving demand control** for reduced peak load and energy savings
- **Optional Low Sound Mode** which reduces the standard low sound level even further
- **Single-zone or Multi-zone operation** - units can be operated either in single or multi-zone

MINI VRF HEAT PUMP OUTDOOR UNITS

208/230V HP | THREE-, FOUR- AND FIVE-TON SYSTEMS

3-, 4- and 5-Ton Systems	Type			Mini VRF Outdoor Units					
	Tonnage			3 Ton[5]		4 Ton[5]		5 Ton	
Model #				HVAHP036B21S		HVAHP048B21S		HVAHP060B21S	
Power Supply				208/230V/ 1PH 60Hz		208/230V/ 1PH 60Hz		208/230V/ 1PH 60Hz	
Capacity (Nominal)[1]	Cooling	Capacity (Nominal)	Btu/h (kW)	36,000	(10.6)	48,000	(14.1)	60,000	(17.6)
		Power input	kW	2.53		3.78		5.05	
		Current input	A	12.3 / 11.1		18.6 / 16.9		24.8 / 22.4	
	Heating	Capacity (Nominal)	Btu/h (kW)	40,000	11.7	54,000	15.8	64,000	18.7
		Power input	kW	2.40		4.00		4.40	
		Current input	A	11.8 / 10.6		19.6 / 17.7		21.7 / 19.6	
Efficiency Ratings[2]	Cooling (for Non-ducted and Ducted)	Capacity (Rated)	Btu/h	36,000	36,000	48,000	48,000	60,000	55,000
		EER	Btu/Wh	16.70	13.80	16.70	13.10	12.20	9.70
		SEER	Btu/Wh	23.50	18.70	24.10	18.40	16.80	16.00
		EER2	Btu/Wh	16.70	13.20	16.70	12.50	12.20	9.70
		SEER2	Btu/Wh	22.20	16.90	23.10	18.10	15.00	16.30
	Heating (for Non-ducted and Ducted)	Rated Capacity	Btu/h	40,000	40,000	54,000	54,000	64,000	64,000
		COP	W/W	5.12	**3.90**	4.56	3.86	3.90	3.30
		HSPF	Btu/Wh	12.80	11.00	11.70	11.80	12.10	11.00
		COP2	W/W	5.12	3.90	4.56	3.75	3.90	3.30
		HSPF2	Btu/Wh	10.80	9.50	9.80	9.70	10.50	8.50
Cooling Operating Range[3]		Outdoor	°F DB (°C DB)	23 (-5) ~ 118 (48)		23 (-5) ~ 118 (48)		23 (-5) ~ 118 (48)	
Heating Operating Range[3]		Outdoor	°F WB (°C WB)	-4 (-20) ~ 59 (15)		-4 (-20) ~ 59 (15)		-4 (-20) ~ 59 (15)	
Outer Dimensions	Height		in (mm)	54-5/16	(1380)	54-5/16	(1380)	54-5/16	(1380)
	Width		in (mm)	37-3/8	(950)	37-3/8	(950)	37-3/8	(950)
	Depth		in (mm)	14-9/16	(370)	14-9/16	(370)	14-9/16	(370)
Weight	Net		lbs (kg)	249	(113)	249	(113)	249	(113)
Connection Ratio	Total Indoor Unit Capacity		%	60-130		60-130		60-105	
	Max. (Recommendation) indoor units/system			6		8		8	
Compressor	Type		—	HA36PHD-A1S2		HA36PHD-A1S2		A36PHD-A1S2	
	Motor Output (Pole)		— / —	3PH / 6		3PH / 6		3PH / 6	
	Operation Range		%	10 ~ 100		10 ~ 100		10 ~ 100	
	Refrigeration Oil Type		–	FVC68D		FVC68D		FVC68D	
Fan	Type		–	Propeller Fan		Propeller Fan		Propeller Fan	
	Motor Output		W	58 + 58		58 + 58		58 + 58	
	Quantity		Q'ty	2					
	Air Flow Rate		cfm (m^3/min)	3177	(90)	3530	(100)	3530	(100)
Electrical	Min Circuit Amps		A	31		31		31	
	Max. Overcurrent Protective Device		A	40					
Sound Pressure Level[4]	Cooling (Night-Shift)		dB(A)	51	(44)	52	(46)	53	(46)
	Heating		dB(A)	52		54		56	
Refrigerant	Type		-	R410A					
	Charge amount		lbs (kg)	7.9	(3.6)	7.9	(3.6)	7.9	(3.6)
Main Refrigerant Piping	Gas Line		in (mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
	Liquid Line		in (mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)

NOTES:

1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Efficiency ratings are based on the AHRI 210/240 test standard. EER, SEER, COP and HSPF are based on AHRI 210/240-2017. EER2, SEER2, COP2 and HSPF2 are based on AHRI 210/240-2023.
3. There are some exceptions and notes for cooling and cooling operation ranges. For details, refer to Section 2.12 'Operation Range'.
4. Measurement Point: 3.3 ft. (1m) from the air outlet side, 4.9 ft. (1.5m) from floor level. The operation sound is measured in an anechoic chamber. However, the actual operation sound may appear louder or with an echo because of surrounding environmental noise. Be sure to check environmental conditions before installation. The sound of the air inlet side may be 3dB higher than that of the air outlet side.
5. Unit is ENERGY STAR certified and ENERGY STAR certification is based on AHRI testings with the M test procedure. Please contact Johnson Controls-Hitachi for any further information.

INDOOR UNITS

FEEL THE DIFFERENCE

Indoor Units

The Mini VRF Outdoor Unit is compatible with all Hitachi VRF indoor units. Hitachi VRF indoor units operate quietly and are easy to install, service and maintain. A wide variety of non-ducted and ducted units are available in styles and capacities to fit multiple applications. Units operate quietly with sound ratings as low as 26 dBA.

Non-Ducted Units

- **1-Way Cassette**
- **2-Way Cassette**
- **4-Way Mini Cassette**
- **4-Way Cassette**
- **Ceiling-Suspended**
- **Wall-Mount**
- **Floor-Exposed**

Ducted Units

- **Ducted High Static**
- **Ducted Medium Static**
- **Ducted Slim**
- **EconoFresh Economizer**
- **Multi-Position Air Handler**
- **Multi air Multi-Position Air Handler (Built-in Control Box Type)**

INDOOR UNITS
OVERVIEW

Choose the style and size from the wide selection of indoor units to meet your requirements for layout and design

Non-ducted indoor unit model numbers

1-Way Cassette

HIC1006B2(1,2)S
HIC1008B2(1,2)S
HIC1012B2(1,2)S
HIC1015B2(1,2)S

2-Way Cassette

HIC2018B21S
HIC2024B21S

4-Way Cassette

HIC4008B21S
HIC4012B21S
HIC4015B21S
HIC4018B21S
HIC4024B21S
HIC4030B21S
HIC4036B21S
HIC4048B21S

4-Way Mini Cassette

HICM008B21S
HICM012B21S
HICM015B21S
HICM018B21S

Ceiling Suspended

HICS015B2(1,2)S
HICS024B2(1,2)S
HICS030B2(1,2)S
HICS036B2(1,2)S

Wall Mount

TIWM006B2(1,2)S
TIWM008B2(1,2)S
TIWM012B2(1,2)S
TIWM015B2(1,2)S
TIWM018B2(1,2)S
TIWM024B2(1,2)S
TIWM030B2(1,2)S

Floor Exposed

HIFE006B21S
HIFE008B21S
HIFE012B21S
HIFE015B21S

Ducted indoor unit model numbers

Ducted High Static

HIDH015B2(2,3)S
HIDH018B2(2,3)S
HIDH024B2(2,3)S
HIDH027B2(2,3)S
HIDH030B2(2,3)S
HIDH036B2(2,3)S
HIDH048B2(2,3)S
HIDH054B2(2,3)S

Ducted Medium Static

HIDM006B23S
HIDM008B23S
HIDM012B23S
HIDM015B23S
HIDM018B23S
HIDM024B23S
HIDM027B23S
HIDM030B23S
HIDM036B23S
HIDM048B23S
HIDM054B23S

Ducted Slim

HIDS006B21S
HIDS008B21S
HIDS012B21S
HIDS015B21S
HIDS018B21S

EconoFresh

HIDM030B21E
HIDM036B21E
HIDM048B21E

Multi air Multi-Position Air Handler(Built-in Control Box Type)

TIAH008B22M
TIAH012B22M
TIAH018B22M
TIAH024B22M
TIAH030B22M
TIAH036B22M
TIAH048B22M
TIAH060B22M

INDOOR UNITS

SELECTION

Choose from a wide array of options

Tons	0.5	0.7	1.0	1.3	1.5	2.0	2.3	2.5	3.0	4.0	4.5	5.0
1-Way Cassette Indoor Unit												
2-Way Cassette Indoor Unit												
Mini Cassette Indoor Unit												
4-Way Cassette Indoor Unit												
Ceiling Suspended Indoor Unit												
Wall Mount Indoor Unit												
Floor Exposed Indoor Unit												
Ducted High Static Indoor Unit												
Ducted Medium Static Indoor Unit												
Ducted Slim Indoor Unit												
EconoFresh Economizer Indoor Unit												
Multi air Multi-Position Air Handler (Built-in Control Box Type)												

INDOOR UNITS
OVERVIEW

1-WAY CASSETTE INDOOR UNIT

This slim and stylish yet inexpensive unit is ideal for spaces that only require one-way airflow.

CEILING SUSPENDED INDOOR UNIT

This unit, with its sleek design, operates quietly and efficiently while evenly distributing airflow.

2-WAY CASSETTE INDOOR UNIT

Providing bi-directional airflow, this exceptionally quiet unit is a good choice for many different spaces.

WALL MOUNT INDOOR UNIT

With wide-angle louvers, this unit distributes air comfortably throughout a room for an even temperature.

4-WAY MINI CASSETTE INDOOR UNIT

This versatile unit is quiet, energy-efficient and compact, making it a great choice for many applications.

FLOOR EXPOSED INDOOR UNIT

This slim-design unit leaves design options open and is ideal for perimeter conditioning of air.

4-WAY CASSETTE INDOOR UNIT

Compact and lightweight, this unit with 4-way airflow is easy to install even in tight spaces.

OVERVIEW (Continued)

DUCTED HIGH STATIC INDOOR UNIT

This unit has a high-efficiency fan motor, multiple fan speeds and bottom access for ease of service.

ECONOFRESH ECONOMIZER INDOOR UNIT

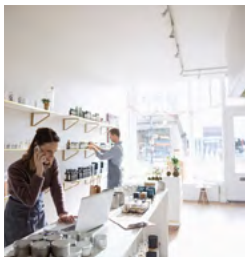
This unit combines a ducted Medium Static unit with an Economizer Kit to provide outside air/free cooling when conditions permit.

DUCTED MEDIUM STATIC INDOOR UNIT

With a high-efficiency fan motor, this unit has multiple fan speeds and access from underneath for ease of service.

MULTI AIR MULTI-POSITION AIR HANLDER (BUILT-IN CONTROL BOX TYPE)

This new Multi air AHU is simple to install, comes in three sizes and eight capacities to suit applications as small as a hotel room or office, and as large as a single-family house.



DUCTED SLIM INDOOR UNIT

This slim-line unit features a high-efficiency fan motor, multiple fan speeds and access from underneath for ease of service.

INDOOR UNITS

1-WAY CASSETTE (NON-DUCTED)

Ceiling-mounted one-way cassettes offer compact designs and a choice of corner-mounted, one-way discharge or two-way discharge (from the front and downward).

Capacities 6,000 to 15,000 Btu/hr

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW02-H

Key features

- Electrical/blower/coil can be accessed through the bottom of the unit, service access adjacent to IDU is not required
- Sensor enables remote reading of air supply temperature
- Automatic swing louver distributes airflow evenly for uniform temperature
- Auxiliary/emergency heater control
- Setback temperature control
- Cooling and heating auto-changeover dual-setpoint control
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling
- Optional energy-saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy

Tonnage				0.5		0.7		1.0		1.3	
1-Way Cassette Indoor Unit Model #				HIC1006B2(1,2)S		HIC1008B2(1,2)S		HIC1012B2(1,2)S		HIC1015B2(1,2)S	
Power Supply				AC 1 Phase, 208/230V, 60Hz							
Nominal Cooling Capacity [1]		Btu / h	(kW)	6000	(1.8)	8000	(2.3)	12000	(3.5)	15000	(4.4)
Nominal Heating Capacity [1]		Btu / h	(kW)	6700	(2.0)	9000	(2.6)	13500	(4.0)	17000	(5.0)
Sound Pressure Level [2] (Overall A Scale) (Hi2-Hi-Me-Lo)		dB		34-32-29-27		36-34-31-28		40-37-33-31		42-38-35-31	
Outer Dimensions	Height	in.	(mm)	9-1/4	(235)	9-1/4	(235)	9-1/4	(235)	9-1/4	(235)
	Width	in.	(mm)	35-7/16	(900)	35-7/16	(900)	35-7/16	(900)	35-7/16	(900)
	Depth	in.	(mm)	27-15/16	(710)	27-15/16	(710)	27-15/16	(710)	27-15/16	(710)
Net Weight		lbs.	(kg)	55	(25)	55	(25)	57	(26)	57	(26)
Refrigerant				R410A							
Indoor Fan	Airflow Rate (Hi2-Hi-Me-Lo)	cfm		300-265-229-212		335-300-265-229		459-406-353-300		512-459-388-335	
		(m3/min)		(8.5-7.5-6.5-6)		(9.5-8.5-7.5-6.5)		(13-11.5-10-8.5)		(14.5-13-11-9.5)	
Motor Nominal Output		W		50		50		50		50	
Connections											
Refrigerant Piping				Flare-Nut Connection (with Flare Nuts)							
	Liquid LIne	in.	(mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)
	Gas Line	in.	(mm)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)
Condensate Drain	OU	in.	(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
Adjustable Panel Model Name				P-AP36CNA				P-AP56CNA			
Applicable Indoor Unit Model				HIC1006B2(1,2)S and HIC1008B2(1,2)S				HIC1012B2(1,2)S and HIC1015B2(1,2)S			
Color				Neutral White							
Dimension	Height	in.	(mm)	1-3/8 (35)							
	Width	in.	(mm)	43-5/16 (1100)							
	Depth	in.	(mm)	31-1/2 (800)							
Net Weight		lbs.	(kg)	10 (4.5)							

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

1-Way Cassette			
Compatible Accessories	HIC1006-015B2(1,2)S	Compatible Accessories	HIC1006-015B2(1,2)S
Infrared (IR) Receiver Kit	C1IRK01	Air Outlet Shuttler Plate	PIS-56LS
Grille for Front Discharge	DG-56SW1	Relay and 3-Pin Connector Kit	PSC-5RA
3-Pin Connector Cable	PCC-1A	Motion Sensor Kit (for 1-Way Cassette)	SOR-NES
Connector Cable for Auxiliary Heater	PCC-CN8-H	Remote Sensor (Control)	THM-R2A
Duct Adapter	PD-100		

INDOOR UNITS

2-WAY CASSETTE (NON-DUCTED)

With a sound level down to 33 dB(A), this unit is among the quietest on the market. Individual louver control with auto-swing or fixed air exhaust angles brings conditioned comfort to a variety of room layouts.

Capacity is 18,000 to 24,000 Btu/hr

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW02-H

Key features

- Electrical/blower/coil can be accessed through the bottom of the unit, service access adjacent to IDU is not required
- Nominal capacity of 18 or 24 MBH
- Compact design - requires only 11-3/4" height
- Energy-efficient DC fan motor
- Standard integrated condensate DC drain pump with 33-7/16 inch lift height
- Auxiliary/emergency heater control
- Setback temperature control
- Cooling and heating auto-changeover dual-setpoint control
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling
- Sensor enables remote reading of air supply temperature
- Optional energy-saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy
- Optional air filter box

Tonnage				1.5		2.0	
2-Way Cassette Indoor Unit Model #				HIC2018B21S		HIC2024B21S	
Power Supply				AC 1 Phase, 208/230V, 60Hz			
Nominal Cooling Capacity [1]		Btu/h	(kW)	18,000	(5.3)	24,000	(7.0)
Nominal Heating Capacity [1]		Btu/h	(kW)	20,000	(5.9)	27,000	(7.9)
Sound Pressure Level [2] (Overall A Scale) (Hi2-Hi-Me-Lo)		dB		42-39-36-33		46-43-39-34	
Outer Dimensions	Height	in.	(mm)	11-3/4	(298)	11-3/4	(298)
	Width	in.	(mm)	33-7/8	(860)	33-7/8	(860)
	Depth	in.	(mm)	24-13/16	(630)	24-13/16	(630)
Net Weight		lbs.	(kg)	55.1	(25)	55.1	(25)
Refrigerant				R410A			
Indoor Fan	Airflow Rate (Hi2-Hi-Me-Lo)	cfm		653-582-512-441		777-688-582-459	
		(m3/min)		(18.5-16.5-14.5-12.5)		(22-19.5-16.5-13)	
Motor Nominal Output		W		57		57	
Connections							
Refrigerant Piping				Flare-Nut Connection (with Flare Nuts)			
	Liquid Line	in.	(mm)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in.	(mm)	5/8	(15.88)	5/8	(15.88)
Condensate Drain	OU	in.	(mm)	1-1/4	(32)	1-1/4	(32)
Adaptable Panel Model				P-AP90DNA			
Color				Neutral White			
Outer Dimensions	Height	in.	(mm)	1-3/16		(30)	
	Width	in.	(mm)	43-5/16		(1,100)	
	Depth	in.	(mm)	27-15/16		(710)	
Net Weight		in.	(mm)	16.5		(7.5)	

2-Way Cassette	
Compatibility Accessories	HIC2018-024B21S
Filter Box	B-90HD
IR Receiver Kit	C2IRK01
3-Pin Connector Cable	PCC-1A
Connector Cable for Auxiliary Heater	PCC-CN8-H
Duct Adapter	PD-150D
Relay and 3-Pin Connector Kit	PSC-5RA
Motion Sensor Kit (for 2-Way Cassette)	SOR-NED
Remote Sensor (Control)	THM-R2A

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

INDOOR UNITS

4-WAY MINI CASSETTE (NON-DUCTED)

Mini-cassette indoor units are designed to meet a variety of building requirements in energy-efficient, quiet packages. Compact size enables installation in tight spaces.

Capacity is 8,000 to 18,000 Btu/hr

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW02-H

Key features

- Electrical/blower/coil can be accessed through the bottom of the unit, service access adjacent to IDU is not required
- High-performance and high-efficiency heat exchanger
- Efficient turbo fan for low-noise performance
- Wide range of air flow settings
- Motorized two-, three- or four-channel air flow louvers with louver kit
- Auxiliary/emergency heater control
- Cooling and heating auto-changeover dual-setpoint control
- Setback temperature control
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling
- Optional energy-saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy

Tonnage				0.7		1.0		1.3		1.5	
4-Way Mini-Cassette Indoor Unit Model #				HICM008B21S		HICM012B21S		HICM015B21S		HICM018B21S	
Power Supply				AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity[1]		Btu / h	(kW)	8,000	(2.3)	12,000	(3.5)	15,000	(4.4)	18,000	(5.3)
Nominal Heating Capacity[1]		Btu / h	(kW)	9,000	(2.6)	13,500	(4.0)	17,000	(5.0)	20,000	(5.9)
Sound Pressure Level[2] (Overall A Scale) (Hi2-Hi-Me-Lo)		dB		38-34-30-24.5		41-37-33-27.5		45-39-35-31		47-43-39-35	
Outer Dimensions	Height	in.	(mm)	11-1/4	(285)	11-1/4	(285)	11-1/4	(285)	11-1/4	(285)
	Width	in.	(mm)	22-7/16	(570)	22-7/16	(570)	22-7/16	(570)	22-7/16	(570)
	Depth	in.	(mm)	22-7/16	(570)	22-7/16	(570)	22-7/16	(570)	22-7/16	(570)
Net Weight		lbs.	(kg)	35	(16)	35	(16)	37	(17)	37	(17)
Refrigerant				R410A							
Indoor Fan	Airflow Rate (Hi2-Hi-Me-Lo)	cfm		424-353-300-212		459-388-335-247		530-424-353-282		565-494-424-353	
		(m^3/min)		(12-10-8.5-6)		(13-11-9.5-7)		(15-12-10-8)		(16-14-12-10)	
Motor Nominal Output		W		57		57		57		57	
Connections											
Refrigerant Piping				Flare-Nut Connection (with Flare Nuts)							
	Liquid Line	in.	(mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	3/8	(9.52)
	Gas Line	in.	(mm)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	5/8	(15.88)
Condensate Drain	OU	in.	(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
Adaptable Panel Model				P-AP56NAM							
Color				Neutral White							
Outer Dimensions	Height	in.	(mm)	1-3/16		(30)					
	Width	in.	(mm)	24-13/32		(620)					
	Depth	in.	(mm)	24-13/32		(620)					
Net Weight		lbs.	(kg)	6		(3)					

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

4-Way Mini Cassette	
Compatible Accessories	HICM008-018B21S
IR Receiver Kit	CMIRK01
3-Pin Connector Cable	PCC-1A
Connector Cable for Auxiliary Heater	PCC-CN8-H
Duct Adaptor	PD-75C
Relay and 3-Pin Connector Kit	PSC-5RA
Motion Sensor Kit (for Mini 4-Way Cassette)	SOR-NEC
Remote Sensor (Control)	THM-R2A

INDOOR UNITS

4-WAY CASSETTE (NON-DUCTED)

Ceiling-mounted 4-Way Cassettes measuring 33 x 33 inch (84 x 84 cm) are offered with standard decorative panels. Compact, thin and lightweight, they are easy to install even in tight spaces.

Capacity is 8,000 to 48,000 Btu/hr

4-Way Cassette IDU is compatible with silent-iconic panel

Controller options

MODEL CIR01

MODEL CIS01

MODEL CIW02-H

Tonnage			0.7		1.0		1.3		1.5	
4-Way Cassette Indoor Unit Model #			HIC4008B21S		HIC4012B21S		HIC4015B21S		HIC4018B21S	
Power Supply			AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity [1]		Btu/h	8,000		12,000		15,000		18,000	
		(kW)	(2.3)		(3.5)		(4.4)		(5.3)	
Nominal Heating Capacity [1]		Btu/h	9,000		13,500		17,000		20,000	
		(kW)	(2.6)		(4.0)		(5.0)		(5.8)	
Sound Pressure Level [2] (Overall A Scale) (Hi2-Hi-Me-Lo)		dB	33-30-28-27		35-31-30-27		37-32-30-27		42-36-32-28	
Outer Dimensions	Height	in. (mm)	9-3/4	(248)	9-3/4	(248)	9-3/4	(248)	9-3/4	(248)
	Width	in. (mm)	33-1/16	(840)	33-1/16	(840)	33-1/16	(840)	33-1/16	(840)
	Depth	in. (mm)	33-1/16	(840)	33-1/16	(840)	33-1/16	(840)	33-1/16	(840)
Net Weight		lbs. (kg)	44	(20)	46	(21)	46	(21)	48	(22)
Refrigerant			R410A							
Indoor Fan	Airflow Rate (Hi2-Hi-Me-Lo)	cfm	530-459-388-318		741-600-494-388		777-600-494-388		953-777-635-494	
		(m^3/min)	(15-13-11-9)		(21-17-14-11)		(22-17-14-11)		(27-22-18-14)	
Motor Nominal Output		W	57		57		57		57	
Connections										
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)							
	Liquid Line	in.(mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	3/8	(9.52)
	Gas Line	in.(mm)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	5/8	(15.88)
Condensate Drain	OU	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

4-Way Cassette	
Compatible Accessories	HIC4008-48B21S
Filter Box	B-160H3
IR Receiver Kit	C4IRK01
Fresh Air Intake Kit (for 4-Way Cassette)	OACI-160K3
3-Pin Connector Cable	PCC-1A
Connector Cable for Auxiliary Heater	PCC-CN8-H
Duct Adapter	PD-75A
Air Outlet Shutter Plate	PI-160LS2
Relay and 3-Pin Connector Kit	PSC-5RA
Remote Sensor (Control)	THM-R2A
T-Tube Connecting Kit	TKCI-160K

INDOOR UNITS

4-WAY CASSETTE (NON-DUCTED) (CONTINUED)

Key features

- Electrical/blower/coil can be accessed through the bottom of the unit, service access adjacent to IDU is not required
- Multiple fan speed settings
- Air filter included
- Four air volume settings including Ultra Hi for higher ceilings
- Four-way airflow standard but can be configured for two-way or three-way
- Integrated condensate pumps in all units
- Auxiliary/emergency heater control
- Setback temperature control
- Cooling and heating auto-changeover dual-setpoint control
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling
- Sensor enables remote reading of air supply temperature
- Motorized two-, three- or four-channel air flow louvers with louver kit
- Optional energy-saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy
- Optional fresh air kit available

Tonnage			2.0		2.5		3.0		4.0	
4-Way Cassette Indoor Unit Model #			HIC4024B21S		HIC4030B21S		HIC4036B21S		HIC4048B21S	
Power Supply			AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity [1]		Btu/h	24,000		30,000		36,000		48,000	
		(kW)	(7.0)		(8.8)		(10.5)		(14.1)	
Nominal Heating Capacity [1]		Btu/h	27,000		34,000		40,000		54,000	
		(kW)	(7.9)		(10.0)		(11.7)		(15.8)	
Sound Pressure Level [2] (Overall A Scale) (Hi2-Hi-Me-Lo)		dB	42-36-32-28		48-43-39-33		48-45-40-35		48-46-41-37	
Outer Dimensions	Height	in. (mm)	11-3/4	(298)	11-3/4	(298)	11-3/4	(298)	11-3/4	(298)
	Width	in. (mm)	33-1/16	(840)	33-1/16	(840)	33-1/16	(840)	33-1/16	(840)
	Depth	in. (mm)	33-1/16	(840)	33-1/16	(840)	33-1/16	(840)	33-1/16	(840)
Net Weight		lbs. (kg)	57	(26)	57	(26)	57	(26)	57	(26)
Refrigerant			R410A							
Indoor Fan	Airflow Rate	cfm	953-812-635-494		1306-1094-847-706		1306-1165-918-741		1306-1236-988-777	
	(Hi2-Hi-Me-Lo)	(m^3/min)	(27-23-18-14)		(37-31-24-20)		(37-33-26-21)		(37-35-28-22)	
Motor Nominal Output		W	57		127		127		127	
Connections										
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)							
	Liquid Line	in.(mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in.(mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate Drain	OU	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Adaptable Panel Model (applies to all models)			Standard		Silent-Iconic
			P-AP160NA2 (without Motion and Radiant Heat Sensors)	P-AP160NAE1 (with Motion and Radiant Heat Sensors)	P-GP160NAP
					
Color			Neutral White		
Outer Dimensions	Height	in.(mm)	1-9/16 (40)	1-9/16 (40)	2-1/16 (52)
	Width	in.(mm)	37-3/8 (950)	37-3/8 (950)	37-3/8 (950)
	Depth	in.(mm)	37-3/8 (950)	37-3/8 (950)	37-3/8 (950)
Net Weight		lbs(kg)	14 (6.5)	14 (6.5)	19 (8.5)

INDOOR UNITS

CEILING SUSPENDED (NON-DUCTED)

Ceiling Suspended indoor units have a stylized design and color that make them among the most elegant units on the market. Units are equipped with an automatic swing louver to ensure even air distribution.

Capacity is 15,000 to 36,000 Btu/hr

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW02-H

Key features

- New fan design for high efficiency and low noise
- Flexible installation for high ceilings
- Cooling and heating auto-changeover dual-setpoint control
- Setback temperature control
- Auxiliary/emergency heater control
- Sensor enables remote reading of air supply temperature
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling
- Optional energy-saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy

Tonnage				1.3		2.0		2.5		3.0	
Ceiling Suspended Indoor Unit Model #				HICS015B2(1,2)S		HICS024B2(1,2)S		HICS030B2(1,2)S		HICS036B2(1,2)S	
Power Supply				AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity [1]		Btu / h	(kW)	15,000	(4.4)	24,000	(7.0)	30,,000	(8.8)	36,000	(10.5)
Nominal Heating Capacity [1]		Btu / h	(kW)	17,000	(5.0)	27,000	(7.9)	34,000	(10.0)	40,000	(11.7)
Sound Pressure Level [2] (Overall A Scale) (Hi2-Hi-Me-Lo)		dB		38-35-31-28		43-40-36-31		44-42-37-32		48-45-41-35	
Outer Dimensions	Height	in.	(mm)	9-1/4	(235)	9-1/4	(235)	9-1/4	(235)	9-1/4	(235)
	Width	in.	(mm)	37-13/16	(960)	50	(1270)	62-3/16	(1580)	62-3/16	(1580)
	Depth	in.	(mm)	27-3/16	(690)	27-3/16	(690)	27-3/16	(690)	27-3/16	(690)
Net Weight		lbs.	(kg)	59	(27)	77	(35)	90	(41)	90	(41)
Refrigerant				R410A							
Indoor Fan	Airflow Rate (Hi2-Hi-Me-Lo)		cfm	530-459-388-318		847-741-635-512		1059-935-777-600		1236-1094-900-706	
			(m3/min)	(15-13-11-9)		(24-21-18-14.5)		(30-26.5-22-17)		(35-31-25.5-20)	
Motor Nominal Output			W	50		80		160		160	
Connections											
Refrigerant Piping				Flare-Nut Connection (with Flare Nuts)							
	Liquid Line		in. (mm)	1/4	(6.35)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line		in. (mm)	1/2	(12.70)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate Drain	OU		in. (mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Ceiling Suspended			
Compatible Accessories	HICS015B2(1,2)S	HICS024B2(1,2)S	HICS030-036B2(1,2)S
Filter Box	B-56MP	B-90MP	B-160MP
IR Receiver Kit	CSIRK01	CSIRK01	CSIRK01
Condensate Pump Kit	DUPC-63K1	DUPC-160K1	DUPC-160K1
3-Pin Connector Cable	PCC-1A	PCC-1A	PCC-1A
Connector Cable for Auxiliary Heater	PCC-CN8-H	PCC-CN8-H	PCC-CN8-H
Duct Adapter	PD-100	PD-100	PD-100
Relay and 3-Pin Connector Kit	PSC-5RA	PSC-5RA	PSC-5RA
Motion Sensor Kit (for Ceiling Suspended)	SOR-NEP	SOR-NEP	SOR-NEP
Remote Sensor (Control)	THM-R2A	THM-R2A	THM-R2A

INDOOR UNITS

WALL MOUNT (NON-DUCTED)

Wall Mount indoor units include wide-angle louvers that distribute airflow comfortably. An auto-swing function ensures efficient air distribution and uniform temperature throughout the conditioned space. Condensate piping can be connected at the right, left or rear of the unit for ease of installation.

Capacity is 6,000 to 30,000 Btu/hr

Controller options

MODEL CIR01

MODEL CIS01

MODEL CIW02-H

Tonnage			0.5		0.7		1.0		1.3			
Wall Mount Indoor Unit Model #			TIWM006B2(1,2)S		TIWM008B2(1,2)S		TIWM012B2(1,2)S		TIWM015B21S		TIWM015B22S	
Power Supply			AC 1Phase, 208/230V, 60Hz									
Nominal Cooling Capacity [1]		Btu/h	6,000		8,000		12,000		15,000			
		(kW)	(1.8)		(2.3)		(3.5)		(4.4)			
Nominal Heating Capacity [1]		Btu/h	6,700		9,000		13,500		17,000			
		(kW)	(2.0)		(2.6)		(4.0)		(5.0)			
Sound Pressure Level [2] (Overall A Scale) (Hi2-Hi-Me-Lo)		dB	39-35-32-30		39-35-32-30		46-40-36-33		42-40-38-33		40-37-34-31	
Outer Dimensions	Height	in.(mm)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)	13-1/8	(333)	11-13/16	(300)
	Width	in.(mm)	31-1/8	(790)	31-1/8	(790)	35-7/16	(900)	45-1/4	(1150)	43-5/16	(1100)
	Depth	in.(mm)	9-1/16	(230)	9-1/16	(230)	9-1/16	(230)	9-5/8	(245)	10-1/4	(260)
Net Weight		lbs.(kg)	22	(10)	22	(10)	24	(11)	35	(16)	32	(15)
Refrigerant			R410A									
Indoor Fan	Airflow Rate (Hi2-Hi-Me-Lo)	cfm	353-282-247-229		353-282-247-229		494-388-318-265		530-494-459-353		512-459-388-335	
		(m^3/min)	(10-8-7-6.5)		(10-8-7-6.5)		(14-11-9-7.5)		(15-14-13-10)		(14.5-13-11-9.5)	
Motor Nominal Output		W	38		38		38		38			
Connections												
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)									
	Liquid Line	in.(mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)
	Gas Line	in.(mm)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)
Condensate Drain	OU	in.(mm)	7/8	(22)	7/8	(22)	7/8	(22)	7/8	(22)	7/8	(22)
	IU	in.(mm)	5/8	(16)	5/8	(16)	5/8	(16)	5/8	(16)	5/8	(16)

INDOOR UNITS

WALL MOUNT (NON-DUCTED) (CONTINUED)

Key features

- Removable front panel for easy cleaning
- Built-in wireless sensor for use with optional wireless zone controller.
- Auxiliary/emergency heater control
- Setback temperature control
- Cooling and heating auto-changeover dual-setpoint control
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling
- Sensor enables remote reading of air supply temperature
- Optional condensate pump

Tonnage			1.5				2.0				2.5			
Wall Mount Indoor Unit Model #			TIWM018B21S		TIWM018B22S		TIWM024B21S		TIWM024B22S		TIWM030B21S		TIWM030B22S	
Power Supply			AC 1Phase, 208/230V, 60Hz											
Nominal Cooling Capacity [1]		Btu/h	18,000				24,000				30,000			
		(kW)	(5.3)				(7.0)				(8.8)			
Nominal Heating Capacity [1]		Btu/h	20,000				27,000				34,000			
		(kW)	(5.8)				(7.9)				(10.0)			
Sound Pressure Level [2] (Overall A Scale) (Hi2-Hi-Me-Lo)		dB	49-43-40-36		45-42-38-35		51-49-46-41		49-46-42-38		51-49-46-41		51-48-44-39	
Outer Dimensions	Height	in.(mm)	13-1/8	(333)	11-13/16	(300)	13-1/8	(333)	11-13/16	(300)	13-1/8	(333)	11-13/16	(300)
	Width	in.(mm)	45-1/4	(1150)	43-5/16	(1100)	45-1/4	(1150)	43-5/16	(1100)	45-1/4	(1150)	43-5/16	(1100)
	Depth	in.(mm)	9-5/8	(245)	10-1/4	(260)	9-5/8	(245)	10-1/4	(260)	9-5/8	(245)	10-1/4	(260)
Net Weight		lbs.(kg)	37	(17)	33	(15)	37	(17)	33	(15)	37	(17)	33	(15)
Refrigerant			R410A											
Indoor Fan	Airflow Rate (Hi2-Hi-Me-Lo)	cfm	671-600-494-424		653-582-494-423		777-671-600-530		759-670-582-494		777-671-600-530		812-706-618-512	
		(m^3/min)	(19-17-14-12)		(18.5-16.5-14-12)		(22-19-17-15)		(21.5-19-16.5-14)		(22-19-17-15)		(23-20-17.5-14.5)	
Motor Nominal Output		W	38				38				38			
Connections														
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)											
	Liquid Line	in.(mm)	3/8 (9.52)				3/8 (9.52)				3/8 (9.52)			
	Gas Line	in.(mm)	5/8 (15.88)				5/8 (15.88)				5/8 (15.88)			
Condensate Drain	OU	in.(mm)	7/8 (22)				7/8 (22)				7/8 (22)			
	IU	in.(mm)	5/8 (16)				5/8 (16)				5/8 (16)			

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 3.3ft (1m) Front of the Unit and 3.3ft (1m) Below the Unit. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Wall Mount Indoor Unit		
Compatible Accessories	TIWM006-015B2(1,2)S	TIWM018-030B2(1,2)S
Infrared (IR) Receiver Kit	CWDIRK01	CWDIRK01
Strainer Kit	MSF-NP63A	MSF-NP112A
3-Pin Connector Cable	PCC-1A	PCC-1A
Connector Cable for Auxiliary Heater	PCC-CN8-H	PCC-CN8-H
Relay and 3-Pin Connector Kit	PSC-5RA	PSC-5RA
Remote Sensor (Control)	THM-R2A	THM-R2A
Condensate Drain Pump	DPWM-83819	DPWM-83819

INDOOR UNITS

FLOOR EXPOSED (NON-DUCTED)

Floor Exposed indoor units have a slim-line design compatible with the style of the room.

Capacity is 6,000 to 15,000 Btu/hr

Controller options

MODEL CIR01

MODEL CIS01

MODEL CIW02-H

Key features

- 8.7-inch (220 mm) depth preserves room space
- 24.8-inch height leaves ample window space
- Ideal for perimeter zone air conditioning
- Setback temperature control
- Sensor enables remote reading of air supply temperature
- Auxiliary/emergency heater control
- Cooling and heating auto-changeover dual-setpoint control

Tonnage				0.5		0.7		1.0		1.3	
Floor Exposed Indoor Unit Model #				HIFE006B21S		HIFE008B21S		HIFE012B21S		HIFE015B21S	
Indoor Unit Power Supply				AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity [1]		Btu / h	(kW)	6,000	(1.8)	8,000	(2.3)	12,000	(3.5)	15,000	(4.4)
Nominal Heating Capacity [1]		Btu / h	(kW)	6,700	(2.0)	9,000	(2.6)	13,500	(4.0)	17,000	(5.0)
Sound Pressure Level [2] (Overall A Scale) (Hi-Me-Lo)		dB		39-33-29		39-33-29		43-35-32		48-43-36	
Outer Dimensions	Height	in.	(mm)	24-13/16	(630)	24-13/16	(630)	24-13/16	(630)	24-13/16	(630)
	Width	in.	(mm)	41-1/8	(1045)	41-1/8	(1045)	46-1/16	(1170)	55-7/8	(1420)
	Depth	in.	(mm)	8-11/16	(220)	8-11/16	(220)	8-11/16	(220)	8-11/16	(220)
Net Weight		lbs.	(kg)	61	(28)	61	(28)	68	(31)	79	(36)
Refrigerant				R410A							
Indoor Fan	Airflow Rate (Hi-Me-Lo)		cfm	300-247-212		300-247-212		424-353-318		565-494-388	
			(m^3/min)	(8.5-7-6)		(8.5-7-6)		(12-10-9)		(16-14-11)	
Motor Nominal Output			W	20		20		28		45	
Connections											
Refrigerant Piping				Flare-Nut Connection (with Flare Nuts)							
	Liquid Line	in.	(mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)
	Gas Line	in.	(mm)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)
Condensate Drain	OU	in.	(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Floor Exposed	
Compatible Accessories	HIFE006-015B21S
Infrared (IR) Receiver Kit	CWDIRK01
3-Pin Connector Cable	PCC-1A
Connector Cable for Auxiliary Heater	PCC-CN1925-H
Relay and 3-Pin Connector Kit	PSC-5RA
Remote Sensor (Control)	THM-R2A

INDOOR UNITS

DUCTED HIGH STATIC

These indoor units now feature higher static pressure: Up to 0.8” for 1.3 - 4.5 ton units and up to 1.16” for six- and eight-ton units.

Capacity is 15,000 to 96,000 Btu/hr

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW02-H

Tonnage			1.3		1.5		2.0		2.3		2.5	
Ducted High Static Indoor Unit Model #			HIDH015B2(2,3)S		HIDH018B2(2,3)S		HIDH024B2(2,3)S		HIDH027B2(2,3)S		HIDH030B2(2,3)S	
Power Supply			AC 1 Phase, 208/230V, 60Hz									
Nominal Cooling Capacity [1]		Btu/h	15,000		18,000		24,000		27,000		30,000	
		(kW)	(4.4)		(5.3)		(7.1)		(8.0)		(8.8)	
Nominal Heating Capacity [1]		Btu/h	17,000		20,000		27,000		30,000		34,000	
		(kW)	(5.0)		(5.9)		(8.0)		(8.8)		(10.0)	
Sound Pressure Level [2] (Overall A Scale) (Hi2-Hi-Me-Lo)		dB	41-38-35-32		37-35-32-30		40-37-34-32		40-37-34-32		40-37-34-32	
Outer Dimensions	Height	in.(mm)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)
	Width	in.(mm)	27-9/16	(700)	41-5/16	(1050)	41-5/16	(1050)	41-5/16	(1050)	55-1/8	(1400)
	Depth	in.(mm)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)
Net Weight		lbs.(kg)	64	(29)	84	(38)	84	(38)	84	(38)	106	(48)
Refrigerant			R410A									
Indoor Fan	Airflow Rate (Hi2-Hi-Me-Lo)	cfm	512-459-388-335		653-582-512-424		759-671-582-494		759-671-582-494		1059-935-812-706	
		(m^3/min)	(14.5-13-11-9.5)		(18.5-16.5-14.5-12)		(21.5-19-16.5-14)		(21.5-19-16.5-14)		(30-26.5-23-20)	
External Pressure [3] Std (High1 - High2)		in. W.G.	0.2 (0.4-0.8)		0.2 (0.4-0.8)		0.2 (0.4-0.8)		0.2 (0.4-0.8)		0.2 (0.4-0.8)	
		(Pa)	(50 (100-200))		(50 (100-200))		(50 (100-200))		(50 (100-200))		(50 (100-200))	
Motor Nominal Output		W	157		190		190		190		259	
Connections												
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)									
	Liquid Line	in.(mm)	1/4	(6.35)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in.(mm)	1/2	(12.7)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate Drain	OU	in. (mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

Ducted High Static			
Compatible Accessories	HIDH015B2(2,3)S	HIDH018-027B2(2,3)S	HIDH030-054B2(2,3)S
Filter Box for Long-Life Filter	B-56LI	B-90LI	B-160LI
Infrared (IR) Receiver Kit	CWDIRK01	CWDIRK01	CWDIRK01
Long-Life Filter	F-56LI	F-90LI	F-160LI
3-Pin Connector Cable	PCC-1A	PCC-1A	PCC-1A
Connector Cable for Auxiliary Heater	PCC-6A	PCC-6A	PCC-6A
Relay and 3-Pin Connector Kit	PSC-5RA	PSC-5RA	PSC-5RA
Motion Sensor Kit (for Ducted Indoor Units)	SOR-NEZ	SOR-NEZ	SOR-NEZ
Seismic Suspension Bracket	—	—	—
Remote Sensor (Control)	THM-R2A	THM-R2A	THM-R2A

INDOOR UNITS

DUCTED HIGH STATIC (CONTINUED)

Key features

- High-efficiency AC fan motor
- Multiple fan speed settings
- Access from underneath for easy service
- Built-in condensate pump
- Auxiliary/emergency heater control
- Sensor enables remote reading of air supply temperature
- Cooling and heating auto-changeover dual-setpoint control
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling

Capacity is 15,000 to 96,000 Btu/hr

Tonnage			3.0		4.0		4.5	
Ducted High Static Indoor Unit Model #			HIDH036B2(2,3)S		HIDH048B2(2,3)S		HIDH054B2(2,3)S	
Power Supply			AC 1 Phase, 208/230V, 60Hz					
Nominal Cooling Capacity [1]		Btu/h	36,000		48,000		54,000	
		(kW)	(10.6)		(14.1)		(15.8)	
Nominal Heating Capacity [1]		Btu/h	40,000		54,000		60,000	
		(kW)	(11.8)		(15.8)		(17.6)	
Sound Pressure Level [2] (Overall A Scale) (Hi2-Hi-Me-Lo) [(Hi-Lo) (208/230V) for 6.0, 8.0 Ton]		dB	42-39-36-33		44-40-37-34		44-40-37-34	
Outer Dimensions	Height	in.(mm)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)
	Width	in.(mm)	55-1/8	(1400)	55-1/8	(1400)	55-1/8	(1400)
	Depth	in.(mm)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)
Net Weight		lbs.(kg)	106	(48)	106	(48)	106	(48)
Refrigerant			R410A					
Indoor Fan	Airflow Rate (Hi2-Hi-Me-Lo)	cfm	1183-1041-918-777		1271-1112-971-847		1271-1112-971-847	
		(m^3/min)	(33.5-29.5-26-22)		(36-31.5-27.5-24)		(36-31.5-27.5-24)	
External Pressure [3] Std (High1-High2) [(Std (High)) (208/230V) for 6.0, 8.0 Ton]		in. W.G.	0.2 (0.4-0.8)		0.2 (0.4-0.8)		0.2 (0.4-0.8)	
		(Pa)	(50 (100-200))		(50 (100-200))		(50 (100-200))	
Motor Nominal Output		W	259		259		259	
Connections								
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)					
	Liquid Line	in.(mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in.(mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate Drain	OU	in. (mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:

1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the unit. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. The data indicates Standard Pressure Setting (High Pressure Setting 1 - High Pressure Setting 2) values when a filter is not used. The sound pressure level is based on the Standard Pressure Setting.

INDOOR UNITS

DUCTED MEDIUM STATIC

These indoor units feature higher static pressure: up to 0.6” for Medium Static Indoor Units.

Capacity is 6,000 to 54,000 Btu/hr

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW02-H

Tonnage			0.5		0.7		1.0		1.3		1.5	
Ducted Medium Static Indoor Unit Model #			HIDM006B23S		HIDM008B23S		HIDM012B23S		HIDM015B23S		HIDM018B23S	
Power Supply			AC 1 Phase, 208/230V, 60Hz									
Nominal Cooling Capacity [1]		Btu/h	6,000		8,000		12,000		15,000		18,000	
		(kW)	(1.8)		(2.4)		(3.6)		(4.4)		(5.3)	
Nominal Heating Capacity [1]		Btu/h	6,700		9,000		13,500		17,000		20,000	
		(kW)	(2.0)		(2.7)		(4.0)		(5.0)		(5.9)	
Sound Pressure Level [2] (Overall A Scale) (Hi2-Hi-Me-Lo)		dB	32-30-28-27		33-31-29-28		38-35-32-30		40-37-34-31		37-35-33-31	
Outer Dimensions	Height	in. (mm)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)
	Width	in. (mm)	27-9/16	(700)	27-9/16	(700)	27-9/16	(700)	27-9/16	(700)	41-5/16	(1050)
	Depth	in. (mm)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)
Net Weight		lbs. (kg)	57	(26)	57	(26)	60	(27)	60	(27)	79	(36)
Refrigerant			R410A									
Indoor Fan	Airflow Rate (Hi2-Hi-Me-Lo)	cfm	300-265-229-194		335-300-265-229		459-406-353-300		512-459-388-335		653-582-494-424	
		(m^3/min)	(8.5-7.5-6.5-5.5)		(9.5-8.5-7.5-6.5)		(13-11.5-10-8.5)		(14.5-13-11-9.5)		(18.5-16.5-14-12)	
External Pressure [3] Std (High1-High2)		in. W.G.	0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)	
		(Pa)	(50 (100-150))		(50 (100-150))		(50 (100-150))		(50 (100-150))		(50 (100-150))	
Motor Nominal Output		W	157		157		157		157		190	
Connections												
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)									
	Liquid Line	in. (mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	3/8	(9.52)
	Gas Line	in. (mm)	1/2	(12.7)	1/2	(12.7)	1/2	(12.7)	1/2	(12.7)	5/8	(15.88)
Condensate Drain	OU	in. (mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

Ducted Medium Static			
Compatible Accessories	HIDM006-015B23S	HIDM018-027B23S	HIDM030-054B23S
Filter Box for Long-Life Filter	B-56LI	B-90LI	B-160LI
Infrared (IR) Receiver Kit	CWDIRK01	CWDIRK01	CWDIRK01
Long-Life Filter	F-56LI	F-90LI	F-160LI
3-Pin Connector Cable	PCC-1A	PCC-1A	PCC-1A
Connector Cable for Auxiliary Heater	PCC-6A	PCC-6A	PCC-6A
Relay and 3-Pin Connector Kit	PSC-5RA	PSC-5RA	PSC-5RA
Motion Sensor Kit (for Ducted Indoor Units)	SOR-NEZ	SOR-NEZ	SOR-NEZ
Remote Sensor (Control)	THM-R2A	THM-R2A	THM-R2A

INDOOR UNITS

DUCTED MEDIUM STATIC (CONTINUED)

Key features

- High-efficiency DC fan motor
- Multiple fan speed settings
- Up to 0.6 in. WG static pressure
- Access from underneath for easy service and troubleshooting
- Built-in condensate pump
- Auxiliary/emergency heater control
- Setback temperature control
- Cooling and heating auto-changeover dual-setpoint control
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling

Tonnage			2.0		2.3		2.5		3.0		4.0		4.5	
Ducted Medium Static Indoor Unit Model #			HIDM024B23S		HIDM027B23S		HIDM030B23S		HIDM036B23S		HIDM048B23S		HIDM054B23S	
Power Supply			AC 1 Phase, 208/230V, 60Hz											
Nominal Cooling Capacity [1]		Btu/h	24,000		27,000		30,000		36,000		48,000		54,000	
		(kW)	(7.1)		(8.0)		(8.8)		(10.6)		(14.1)		(15.8)	
Nominal Heating Capacity [1]		Btu/h	27,000		30,000		34,000		40,000		54,000		60,000	
		(kW)	(8.0)		(8.8)		(10.0)		(11.8)		(15.8)		(17.6)	
Sound Pressure Level [2] (Overall A Scale) (Hi2-Hi-Me-Lo)		dB	39-37-34-32		39-37-34-32		40-38-35-32		42-39-36-34		43-40-37-34		43-40-37-34	
Outer Dimensions	Height	in.(mm)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)
	Width	in.(mm)	41-5/16	(1050)	41-5/16	(1050)	55-1/8	(1400)	55-1/8	(1400)	55-1/8	(1400)	55-1/8	(1400)
	Depth	in.(mm)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)
Net Weight		lbs.(kg)	79	(36)	79	(36)	97	(44)	97	(44)	97	(44)	97	(44)
Refrigerant			R410A											
Indoor Fan	Airflow Rate (Hi2-Hi-Me-Lo)	cfm	759-671-582-494		759-671-582-494		1059-935-812-706		1183-1041-918-777		1271-1112-971-847		1271-1112-971-847	
		(m3/min)	(21.5-19-16.5-14)		(21.5-19-16.5-14)		(30-26.5-23-20)		(33.5-29.5-26-22)		(36-31.5-27.5-24)		(36-31.5-27.5-24)	
External Pressure [3] Std (High1-High2)		in. W.G.	0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)	
		(Pa)	(50 (100-150))		(50 (100-150))		(50 (100-150))		(50 (100-150))		(50 (100-150))		(50 (100-150))	
Motor Nominal Output		W	190		190		259		259		259		259	
Connections														
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)											
	Liquid Line	in.(mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in.(mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate Drain	OU	in. (mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:

1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the unit. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. The data indicates Standard Pressure Setting (High Pressure Setting 1 - High Pressure Setting 2) values when a filter is not used. The sound pressure level is based on the Standard Pressure Setting.

INDOOR UNITS

DUCTED MEDIUM STATIC
(CONVENTIONAL TYPE)

Key features

- High-efficiency DC fan motor
- Multiple fan speed settings
- Up to 0.32 in. WG static pressure
- Access from underneath for easy service and troubleshooting
- Built-in condensate pump

Tonnage			0.5		0.7		1.0		1.3		1.5		2.0		2.5		3.0		4.0	
Ducted Medium Static Indoor Unit Model #			HIDM006B21S		HIDM008B21S		HIDM012B21S		HIDM015B21S		HIDM018B21S		HIDM024B21S		HIDM030B21S		HIDM036B21S		HIDM048B21S	
Power Supply			AC 1 Phase, 208/230V, 60Hz																	
Nominal Cooling Capacity [1]		Btu/h	6,000		8,000		12,000		15,000		18,000		24,000		30,000		36,000		48,000	
		(kW)	(1.8)		(2.3)		(3.5)		(4.4)		(5.3)		(7.0)		(8.8)		(10.5)		(14.1)	
Nominal Heating Capacity [1]		Btu/h	6,700		9,000		13,500		17,000		20,000		27,000		34,000		40,000		54,000	
		(kW)	(2.0)		(2.6)		(4.0)		(5.0)		(5.9)		(7.9)		(10.0)		(11.7)		(15.8)	
Sound Pressure Level [2] (Overall A Scale) (Hi2-Hi-Me-Lo)		dB	34-32-29-26		34-32-29-26		38-36-34-30		39-36-33-28		42-40-37-29		38-35-33-29		42-39-36-32		44-41-39-33		46-44-40-34	
Outer Dimensions	Height	in.(mm)	10-5/8	(270)	10-5/8	(270)	10-5/8	(270)	10-5/8	(270)	10-5/8	(270)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)
	Width	in.(mm)	25-9/16	(650)	25-9/16	(650)	25-9/16	(650)	35-7/16	(900)	35-7/16	(900)	43-5/16	(1100)	43-5/16	(1100)	55-1/8	(1400)	55-1/8	(1400)
	Depth	in.(mm)	28-3/8	(720)	28-3/8	(720)	28-3/8	(720)	28-3/8	(720)	28-3/8	(720)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)
Net Weight		lbs.(kg)	53	(24)	53	(24)	53	(24)	66	(30)	66	(30)	93	(44)	93	(44)	108	(49)	108	(49)
Refrigerant			R410A																	
Indoor Fan	Airflow Rate (Hi2-Hi-Me-Lo)	cfm	318-282-240-205		318-282-240-205		424-388-353-282		512-459-406-335		671-600-530-388		883-812-741-600		1094-988-883-741		1253-1147-1041-830		1377-1236-1094-847	
		(m^3/min)	(9-8-6.8-5.8)		(9-8-6.8-5.8)		(12-11-10-8)		(14.5-13-11.5-9.5)		(19-17-15-11)		(25-23-21-17)		(31-28-25-21)		(35.5-32.5-29.5-23.5)		(39-35-31-24)	
External Pressure [3] Std (High1-High2)		in. W.G.	0.2 (0.32-0.14)		0.2 (0.32-0.14)		0.2 (0.32-0.14)		0.2 (0.32-0.14)		0.2 (0.32-0.14)		0.2 (0.32-0.14)		0.2 (0.32-0.14)		0.2 (0.32-0.14)		0.2 (0.32-0.14)	
		(Pa)	(50 (80-35))		(50 (80-35))		(50 (80-35))		(50 (80-35))		(50 (80-35))		(50 (80-35))		(50 (80-35))		(50 (80-35))		(50 (80-35))	
Motor Nominal Output		W	150		150		150		150		150		250		250		250		250	
Connections																				
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)																	
	Liquid Line	in.(mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in.(mm)	5/8	(15.88)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate Drain	OU	in. (mm)	1-1/4 (32)		1-1/4 (32)		1-1/4 (32)		1-1/4 (32)		1-1/4 (32)		1-1/4 (32)		1-1/4 (32)		1-1/4 (32)		1-1/4 (32)	

INDOOR UNITS
DUCTED SLIM

Capacity is 6,000 to 18,000 Btu/hr

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW02-H

Key features

- High-efficiency DC fan motor
- Multiple fan speed settings
- Up to .20 in. WG static pressure
- Access from underneath for easy service and troubleshooting
- Built-in condensate pump
- Setback temperature control
- Auxiliary/emergency heater control
- Cooling and heating auto-changeover dual-setpoint control
- Sensor enables remote reading of air supply temperature

Tonnage			0.5		0.7		1.0		1.3		1.5	
Ducted Slim Indoor Unit Model #			HIDS006B21S		HIDS008B21S		HIDS012B21S		HIDS015B21S		HIDS018B21S	
Power Supply			AC 1 Phase, 208/230V, 60Hz									
Nominal Cooling Capacity [1]		Btu/h	6,000		8,000		12,000		15,000		18,000	
		(kW)	(1.8)		(2.3)		(3.5)		(4.4)		(5.3)	
Nominal Heating Capacity [1]		Btu/h	6,700		9,000		13,500		17,000		20,000	
		(kW)	(2.0)		(2.6)		(4.0)		(5.0)		(5.9)	
Sound Pressure Level (Overall A Scale) (Hi2-Hi-Me-Lo)		dB	32-30-29-27		32-30-29-27		34-33.5-33-32		36-35-33-32		40-38-36-34	
Outer Dimensions	Height	in.(mm)	7-9/16	(192)	7-9/16	(192)	7-9/16	(192)	7-9/16	(192)	7-9/16	(192)
	Width	in.(mm)	35-3/4	(908)	35-3/4	(908)	35-3/4	(908)	46-3/8	(1178)	46-3/8	(1178)
	Depth	in.(mm)	17-19/32	(447)	17-19/32	(447)	17-19/32	(447)	17-19/32	(447)	17-19/32	(447)
Net Weight		lbs.(kg)	44	(20)	44	(20)	46	(21)	57	(26)	57	(26)
Refrigerant			R410A									
Indoor Fan	Airflow Rate (Hi2-Hi-Me-Lo)	cfm	318-289-244-205		318-289-244-205		346-318-300-268		512-477-441-381		582-530-494-424	
		(m3/min)	(9-8-7-6)		(9-8-7-6)		(10-9-9-8)		(15-14-13-11)		(17-15-14-12)	
External Pressure [2] Std (High-Low)		in. W.G.	0.04 (0.12-0.00)		0.04 (0.12-0.00)		0.04 (0.12-0.00)		0.04 (0.20-0.00)		0.04 (0.20-0.00)	
		(Pa)	(10 (30-0))		(10 (30-0))		(10 (30-0))		(10 (50-0))		(10 (50-0))	
Motor Nominal Output		W	40		40		40		60		60	
Connections												
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)									
	Liquid Line	in.(mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	3/8	(9.52)
	Gas Line	in.(mm)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	5/8	(15.88)
Condensate Drain	OU	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Data values when a filter is not used.

Ducted Slim		
Compatible Accessories	HIDS006-012B21S	HIDS015-018B21S
Infrared (IR) Receiver Kit	CWDIRK01	CWDIRK01
Air Filter	KW-PP5Q	KW-PP6Q
3-Pin Connector Cable	PCC-1A	PCC-1A
Connector Cable for Auxiliary Heater Control	PCC-CN8-H	PCC-CN8-H
Relay and 3-Pin Connector Kit	PSC-5RA	PSC-5RA
Remote Sensor (Control)	THM-R2A	THM-R2A

INDOOR UNITS

ECONOFRESH ECONOMIZER

The EconoFresh unit includes the Economizer Kit and a ducted Medium Static unit in a choice of three capacities: 30,000, 36,000 or 48,000 Btu/hr.

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW02-H

The exclusive EconoFresh unit is a combination of a ducted Medium Static unit paired with an Economizer Kit to provide up to 100 percent outside air/free cooling when conditions are favorable. Seamlessly integrating with VRF systems, the unit contributes to energy savings and improves air quality.

Key features

- Excellent for applications with cooling demand during mid seasons and winter
- Inputs for optional CO_2 and enthalpy sensors are available for control based on indoor air quality or temperature/humidity
- Remote control setting of the outside air damper opening to ensure minimum outside airflow requirements are met
- Auxiliary/emergency heater control
- Setback temperature control
- Cooling and heating auto-changeover dual-setpoint control
- Sensor enables remote reading of air supply temperature

Tonnage			2.5		3.0		4.0	
EconoFresh (Economizer Kit + a ducted Medium Static indoor unit) - Model #			HIDM030B21E		HIDM036B21E		HIDM048B21E	
Power Supply			AC 1 Phase, 208/230V, 60Hz					
Nominal Cooling Capacity *		Btu/h	30,000		36,000		48,000	
		(kW)	(8.8)		(10.5)		(14.1)	
Nominal Heating Capacity *		Btu/h	34,000		40,000		54,000	
		(kW)	(10.0)		(11.7)		(15.8)	
Sound Pressure Level (Overall A Scale) (Hi-Me-Lo)		dB	38-35-32		39-35-33		40-36-33	
Outer Dimensions	Height	in.(mm)	10-7/8	(275)	10-7/8	(275)	10-7/8	(275)
	Width	in.(mm)	58-1/16	(1474)	58-1/16	(1474)	58-1/16	(1474)
	Depth	in.(mm)	23-5/8	(600)	23-5/8	(600)	23-5/8	(600)
Net Weight		lbs.(kg)	106	(48)	106	(48)	106	(48)
Refrigerant			R410A					
Indoor Fan	Airflow Rate[2] (Hi-Me-Lo)	cfm	1059-953-847		1236-1094-988		1271-1130-1024	
		(m^3/min)	(30-27-24)		(35-31-28)		(36-32-29)	
External Pressure[2] (High-Med-Low)		in. W.G.	0.17-0.12-0.10		0.16-0.11-0.10		0.12-0.10-0.08	
		(Pa)	(43-30-25)		(40-28-25)		(30-25-20)	
Motor Nominal Output		W	250		250		250	
Connections								
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)					
	Liquid Line	in.(mm)	3/8	(9.52)	3/8	(9.52)		(9.52)
	Gas Line	in.(mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate Drain	OU	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
Adaptable EconoFresh Kit Model			EF-456NE					
	Height	in. (mm)	10 (254)					
	Width	in. (mm)	55-1/2 (1410)					
	Depth	in. (mm)	12-3/16 (270)					
	Net Weight	lbs. (kg)	28 (12.5)					

EcoFresh	
Compatible Accessories	HIDM030-048B21E
Infrared (IR) Receiver Kit	CWDIRK01
Air Filter	KW-PP456E
3-Pin Connector Cable	PCC-1A
Connector Cable for Auxiliary Heater	PCC-CN8-H
Relay and 3-Pin Connector Kit	PSC-5RA
Remote Sensor (Control)	THM-R2A

NOTES:
1. Nominal capacity condition is based on AHRI standard. See www.ahrinet.org for more information.
2. Data values when a filter is not used.

MULTI-AIR MULTI-POSITION AIR HANDLER (BUILT-IN CONTROL BOX TYPE)

Fit more spaces with greater ease

It's faster, easier and less expensive to solve application challenges with the new Multi-position AHU.

Available in capacities ranging from 0.7 to five tons, this unit provides a flexible solution for applications as diverse as single hotel rooms or entire houses.

Available in three sizes - small, medium and large - this unit provides the flexibility for installation in any upflow or horizontal application. Compact cabinets, along with return air options in both the upflow and horizontal positions allow this unit to fit into tight spaces such as closets, attics and crawl spaces.

Key features

- Pre-installed refrigerant components and point of power for all sizes
- Electrical components and expansion valve are built in and ready to go
- Available with factory installed electric heating coils
- Pre-painted steel on the top, coil and blower doors and heavy-gauge embossed galvanized steel cabinet casing resist corrosion and rust creep
- Insulated with one-inch R-4.5 insulation that delivers lasting performance and efficiency.
- Blowers are sized to circulate air both quietly and efficiently. The motor is four-tap constant torque motor (ECM)
- The rifled copper tube and aluminum fin coils produce high performance ratings and provide long-lasting quality by using the latest in heat transfer technology
- External static pressure can be selected for high (0.8 in. WG) or standard (0.4 in. WG)
- Connectable condensate pump is supplied in the field

MULTI-AIR MULTI-POSITION AIR HANDLER (BUILT-IN CONTROL BOX TYPE)

Tonnage			0.7 Ton		1.0 Ton		1.5 Ton		2.0 Ton	
Model #			TIAH008B22M		TIAH012B22M		TIAH018B22M		TIAH024B22M	
Indoor Unit Power Supply			AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity [1]		Btu/h	8,000		12,000		18,000		24,000	
		(kW)	(2.4)		(3.6)		(5.3)		(7.1)	
Nominal Heating Capacity [1]		Btu/h	9,000		13,500		20,000		27,000	
		(kW)	(2.7)		(4.0)		(5.9)		(8.0)	
Sound Power Level [2] (Overall A Scale) (H-Lo)		dB	TBD		TBD		TBD		TBD	
Outer Dimensions	Height	in. (mm)	43	(1092)	43	(1092)	43	(1092)	43	(1092)
	Width	in. (mm)	17-1/2	(445)	17-1/2	(445)	17-1/2	(445)	17-1/2	(445)
	Depth	in. (mm)	21	(533)	21	(533)	21	(533)	21	(533)
Net Weight		lbs. (kg)	96	(44)	98	(44)	106	(48)	106	(48)
Refrigerant			R410A							
Indoor Fan	Airflow Rate (Hi-Lo)	cfm	350-250		430-300		690-440		800-530	
		(m^3/min)	(9.9-7.1)		(12.2-8.5)		(19.5-12.5)		(22.7-15.0)	
External Pressure [3] (Standard-High)		in. W.G.	0.4-0.8		0.4-0.8		0.4-0.8		0.4-0.8	
		(Pa)	(100-199)		(100-199)		(100-199)		(100-199)	
Motor Nominal Output		HP	1/3		1/3		1/3		1/3	
Connections										
Refrigerant Piping			Brazing							
	Liquid Line	in. (mm)	1/4	(6.35)	1/4	(6.35)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in. (mm)	1/2	(12.7)	1/2	(12.7)	5/8	(15.88)	5/8	(15.88)
Condensate Drain	OD	in. (mm)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)

NOTES:

1 Nominal capacity is based on combinations within the VRF system under the following conditions:

Cooling operation conditions

Indoor Air Inlet Temperature:	80°F DB (26.7°C DB 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature:	95°F DB (35.0°C DB)
Piping Length:	24.6 ft. (7.5m)
Piping Lift:	0ft. (0m)

Heating operation conditions

Indoor Air Inlet Temperature:	70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature:	47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

2 The sound power level is based on AHRI 260. The sound data is measured when the External Static Pressure is High setting.

3 The data for external pressure indicates the values when a filter is not used.

MULTI-AIR MULTI-POSITION AIR HANDLER (BUILT-IN CONTROL BOX TYPE) (CONTINUED)

Tonnage			2.5 Ton		3.0 Ton		4.0 Ton		5.0 Ton	
Model #			TIAH030B22M		TIAH036B22M		TIAH048B22M		TIAH060B22M	
Indoor Unit Power Supply			AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity [1]		Btu/h	30,000		36,000		48,000		60,000	
		(kW)	(8.8)		(10.6)		(14.1)		(17.6)	
Nominal Heating Capacity [1]		Btu/h	34,000		40,000		54,000		64,000	
		(kW)	(10.0)		(11.8)		(15.8)		(18.8)	
Sound Power Level [2] (Overall A Scale) (H-Lo)		dB	TBD		TBD		TBD		TBD	
Outer Dimensions	Height	in. (mm)	48	(1219)	48	(1219)	58-3/4	(1492)	58-3/4	(1492)
	Width	in. (mm)	21	(533)	21	(533)	24-1/2	(622)	24-1/2	(622)
	Depth	in. (mm)	21	(533)	21	(533)	21-3/4	(553)	21-3/4	(553)
Net Weight		lbs (kg)	126	(57)	126	(57)	168	(76)	168	(76)
Refrigerant			R410A							
Indoor Fan	Airflow Rate (Hi-Lo)	cfm	1000-700		1050-750		1520-1060		1800-1260	
		(m^3/min)	(28.3-19.8)		(29.7-21.2)		(43.0-30.0)		(51.0-35.7)	
External Pressure [3] (Standard-High)		in. W.G.	0.4-0.8		0.4-0.8		0.4-0.8		0.4-0.8	
		(Pa)	(100-199)		(100-199)		(100-199)		(100-199)	
Motor Nominal Output		HP	1/2		1/2		3/4		3/4	
Connections										
Refrigerant Piping			Brazing							
	Liquid Line	in. (mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in. (mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	3/4	(19.05)
Condensate Drain	OD	in. (mm)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)

NOTES:

1 Nominal capacity is based on combinations within the VRF system under the following conditions:

Cooling operation conditions

Indoor Air Inlet Temperature:	80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature:	95°F DB (35.0°C DB)
Piping Length:	24.6 ft. (7.5m)
Piping Lift:	0ft. (0m)

Heating operation conditions

Indoor Air Inlet Temperature:	70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature:	47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

2 The sound power level is based on AHRI 260. The sound data is measured when the External Static Pressure is High setting.

3 The data for external pressure indicates the values when a filter is not used.

Multi-Position Air Handler (Built-in Control Box Type)						
Compatible Accessories		TIAH008,012B22M	TIAH018,024B22M	TIAH030,036B22M	TIAH048B22M	TIAH060B22M
Filter Base Kit		86ET0002		86ET0001	86ET0003	
Downflow Conversion Kit		DFK-S-JH		DFK-M-JH	DFK-L-JH	
Electrical Heater Kit	2 kW	BSEHK-02B-JH	BSEHK-02B-JH	-	-	-
	3 kW	-	BSEHK-03B-JH	BMEHK-03B-JH	-	-
	5 kW	-	-	BMEHK-05B-JH	BLEHK-05B-JH	BLEHK-05B-JH
	8 kW	-	-	-	BLEHK-08B-JH	BLEHK-08B-JH
	10 kW	-	-	-	-	BLEHK-10B-JH
Infrared Receiver (IR) Kit		CWDIRK01				
3-Pin Connector Cable		PCC-1A				
Relay and 3-Pin Connector Kit		PSC-5RA				
Remote Sensor (Control)		THM-R2A				

MULTI-AIR MULTI-POSITION AIR HANDLER (BUILT-IN HEATER KIT)

Tonnage			0.7 Ton		1.0 Ton		1.5 Ton		2.0 Ton	
Model #			TIAH008B22M3H		TIAH012B22M3H		TIAH018B22M5H		TIAH024B22M5H	
Indoor Unit Power Supply			AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity [1]		Btu/h	8,000		12,000		18,000		24,000	
		(kW)	(2.4)		(3.6)		(5.3)		(7.1)	
Nominal Heating Capacity [1]		Btu/h	9,000		13,500		20,000		27,000	
		(kW)	(2.7)		(4.0)		(5.9)		(8.0)	
Heater Kit		(kW)	Built-In							
Output (240V)			3.0		3.0		5.0		5.0	
Sound Power Level *2 (Overall A Scale) (H-Lo)		dB	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Outer Dimensions	Height	in. (mm)	43	(1092)	43	(1092)	43	(1092)	43	(1092)
	Width	in. (mm)	17-1/2	(445)	17-1/2	(445)	17-1/2	(445)	17-1/2	(445)
	Depth	in. (mm)	21	(533)	21	(533)	21	(533)	21	(533)
Net Weight		lbs. (kg)	101	(46)	103	(47)	111	(50)	111	(50)
Refrigerant			R410A							
Indoor Fan	Airflow Rate (Hi-Lo)	cfm	350-(na)		430-(n/a)		690-(n/a)		800-(n/a)	
		(m^3/min)	3 (9.9-(n/a))		3 (12.2-(n/a))		3 (19.5-(n/a))		3 (22.7-(n/a))	
External Pressure [3] (Standard-High)		in. W.G.	0.4-0.8		0.4-0.8		0.4-0.8		0.4-0.8	
		(Pa)	(100-199)		(100-199)		(100-199)		(100-199)	
Motor Nominal Output		HP	1/3		1/3		1/3		1/3	
Connections										
Refrigerant Piping			Brazing							
	Liquid Line	in. (mm)	1/4	(6.35)	1/4	(6.35)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in. (mm)	1/2	(12.7)	1/2	(12.7)	5/8	(15.88)	5/8	(15.88)
Condensate Drain	OD	in. (mm)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)

NOTES:

1 Nominal capacity is based on combinations within the VRF system under the following conditions:

Cooling operation conditions

Indoor Air Inlet Temperature:	80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature:	95°F DB (35.0°C DB)
Piping Length:	24.6 ft. (7.5m)
Piping Lift:	0ft. (0m)

Heating operation conditions

Indoor Air Inlet Temperature:	70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature:	47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

2 The sound power level is based on AHRI 260. The sound data is measured when the External Static Pressure is High setting.

3 The data for external pressure indicates the values when a filter is not used.

MULTI-AIR MULTI-POSITION AIR HANDLER (BUILT-IN HEATER KIT) (CONTINUED)

Tonnage			2.5 Ton		3.0 Ton		4.0 Ton		5.0 Ton	
Model #			TIAH030B22M8H	TIAH030B22M10H	TIAH036B22M8H	TIAH036B22M10H	TIAH048B22M10H		TIAH060B22M15H	
Indoor Unit Power Supply			AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity [1]		Btu/h	30,000	30,000	36,000	36,000	48,000		60,000	
		(kW)	(8.8)	(8.8)	(10.6)	(10.6)	(14.1)		(17.6)	
Nominal Heating Capacity [1]		Btu/h	34,000	34,000	40,000	40,000	54,000		64,000	
		(kW)	(10.0)	(10.0)	(11.8)	(11.8)	(15.8)		(18.8)	
Heater Kit Output (240V)		(kW)	Built-In							
			8.0	10.0	8.0	10.0	10.0		15.0	
Sound Power Level *2 (Overall A Scale) (H-Lo)		dB	TBD		TBD		TBD		TBD	
Outer Dimensions	Height	in. (mm)	48	(1219)	48	(1219)	58-3/4	(1492)	58-3/4	(1492)
	Width	in. (mm)	21	(533)	21	(533)	24-1/2	(622)	24-1/2	(622)
	Depth	in. (mm)	21	(533)	21	(533)	21-3/4	(553)	21-3/4	(553)
Net Weight		lbs (kg)	131	(59)	131	(59)	173	(78)	173	(78)
Refrigerant			R410A							
Indoor Fan	Airflow Rate (Hi-Lo)	cfm	1000-(n/a)		1050-(n/a)		1050-(n/a)		1800-(n/a)	
		(m^3/min)	3 (28.3-(n/a))		3 (29.7-(n/a))		3 (29.7-(n/a))		3 (51.0-(n/a))	
External Pressure [3] (Standard-High)		in. W.G.	0.4-0.8		0.4-0.8		0.4-0.8		0.4-0.8	
		(Pa)	(100-199)		(100-199)		(100-199)		(100-199)	
Motor Nominal Output		HP	1/2		1/2		3/4		3/4	
Connections										
Refrigerant Piping			Brazing							
	Liquid Line	in. (mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in. (mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	3/4	(19.05)
Condensate Drain	OD	in. (mm)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)

NOTES:

1 Nominal capacity is based on combinations within the VRF system under the following conditions:

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Heating operation conditions

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2 The sound power level is based on AHRI 260. The sound data is measured when the External Static Pressure is High setting.

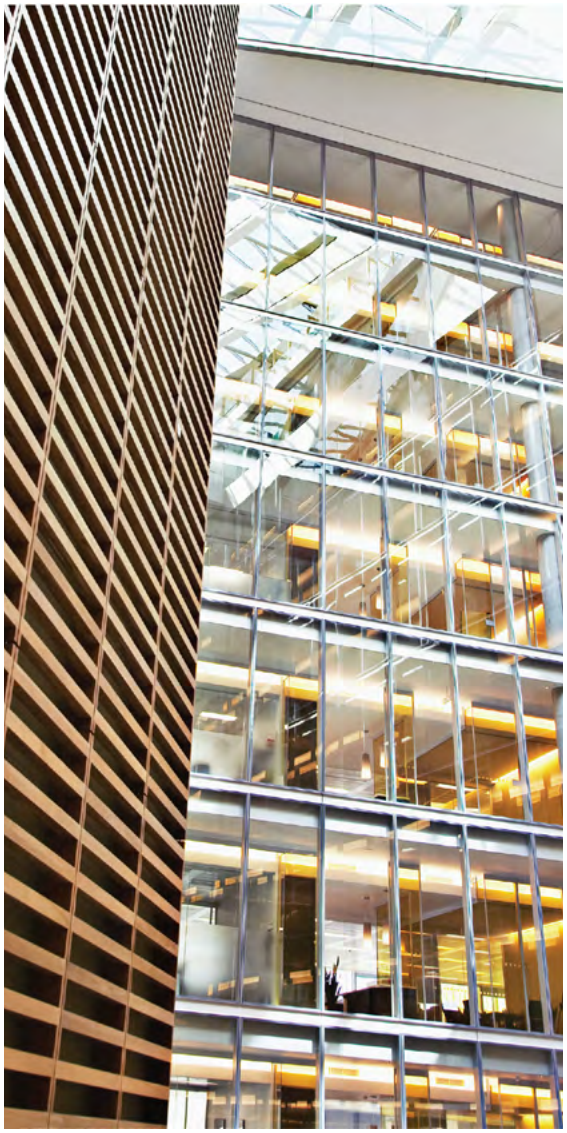
3 The data for external pressure indicates the values when a filter is not used.

CONTROLLERS

A control option for every application

Controllers and network adapters

Bring your customers premium control options with Hitachi controllers and gateways. The wide range of options provides an optimal solution for every customer's needs. All Hitachi controllers are compatible with all Hitachi Air-Source and Water-Source Systems.



CONTROLLERS
OVERVIEW

Project Requirements	Wireless Zone Controller	Simplified Wired Zone Controller	Advanced Color Wired Remote Controller	Mini Central Station	Large Central Station	Central Touch-screen Controller	LON-Works® Adapter	VRF Smart Gateway (BACnet)®	VRF Cloud Gateway	airCloud Gateway
	CIR01	CIS01	CIW02-H	CCM01	CCL01	CCXL02	CLW01	CBN02	CMNETS	HC-IOTGW
Simple individual zone control	✓	✓	✓	✓	✓	✓			✓	✓
Independent cool and heat setpoints	✓	✓	✓	✓	✓	✓	▲	▲	✓	✓
Individual zone control with weekly programmable scheduling			✓	✓	✓	✓	▲	▲	✓	✓
Basic central point on/off control of all units				✓	✓	✓	✓	✓	✓	✓
Advanced multi-zone control of small to medium size projects				✓	✓		▲	▲	✓	✓
Advanced multi-zone control of large commercial projects					✓	✓	▲	▲	✓	✓
Automatic cooling/heating changeover for heat recovery systems	✓	✓	✓	✓	✓	✓	▲	▲	✓	✓
Single input batch shutdown of all connected units				✓	✓	✓	✓	✓	✓	✓
Multiple tenant power billing for shared condenser applications*						✓		▲		
Temperature set-point range restrictions		✓	✓	✓	✓	✓	▲	▲	✓	✓
Graphical user interface with floor plan layout						✓	▲	▲		
Exposes more points							▲	▲		
Exposes outdoor unit points							▲	▲		
Capable of reading Indoor and Outdoor Unit sensors								✓		
Wi-Fi enabled							▲	✓	✓	✓
Easy integration							▲	✓	✓	✓
Easy commissioning							▲	✓	✓	✓
Hotel Mode			✓							

✓ Native application or feature of this device
▲ Dependent upon capabilities of a third-party energy management system
* Additional metering hardware and software is required for consumption-based tenant billing

CONTROLLERS

ZONE CONTROLLERS

Zone Controllers - Energy-Saving Features		
Temperature range limit	Set temperature auto reset	Occupancy-based operation (Sensors available on select Indoor Units)
Setback	Off timer	Individual function lockout (mode, temperature, fan speed)

MODEL CIW02-H

Advanced color wired remote controller

- New wired remote controller for VRF with the brand-new global visual design
- Stylish curve surface with easy-to-operate touch buttons placed at a touch angle
- Integrated housing with in-mould labeling (IML) process increases durability aand creates a cleaner look
- Improved visual monitoring with a large 4.3-inch color screen
- New home menu design with a different display color for each operation mode
- Optimized menu structure for easy operation. Provides password protection to Service & Installation menu for maintenance operation
- Seven languages are supported, English, Japanese, Chinese (traditional), Chinese (simplified), French, Spanish and Portuguese, and the regional default language is pre-set on each model
- New feature for Hotel Mode with a quick access icon for Language and OFF Timer assigned on the home screen
- Service & Installation improvements include new function selection user interface (UI) with command description and quick access from tab design and setting history

MODEL CIS01

Simplified Wired Zone Controller

- Small size for discreet applications
- Controls one to 16 indoor units (same settings)
- Error code diagnosis
- Adjustable fan speed
- Typically used in hotels, offices and restaurants

MODEL CIR01

Wireless Zone Controller

- Controls up to 16 indoor units
- Built-in 23-hour timer
- Wireless receiver must be added for all indoor units except Wall Mount models (built-in)

MODEL C3STAT01

5-Wire Thermostat Adapter

- Enables communication from standard five-wire thermostats into VRF controls logic
- Small size for discreet installation
- Illuminated seven-segment display
- Field-configurable
- Easy-to-use desktop user interface available
- Single 24VAC power connection can power both adapter and third-party thermostat

CENTRAL CONTROLLERS

Central Station

Central Controller Large and Mini systems are available.

- Large version controls up to 64 groups of indoor units (maximum 160 units)
- Mini version controls up to 32 groups of indoor units (maximum 160 units)
- Easy-to-use touchscreen interface
- Records accumulated operations time for tenant billing
- Color-coded graphics for quick reference
- Set up to 10 on/off times per day
- Up to eight stations can be connected to the H-LINK II
- In addition to basic control, such as settings for operation/stop, the operation mode and temperature, the air quantity and auto louver can be set. If a problem occurs, an alarm code immediately shows the details of the problem
- An external input terminal is provided as standard. External signals enable the following functions:
  - » Central operation/stop
  - » Demand control
  - » Emergency stop
  - » Central operation output and central alarm output

Large Central Controller: MODEL CCL01

Mini Central Controller: MODEL CCM01

CONTROLLERS

CENTRAL CONTROLLERS

VRF Central Touchscreen Conroller: MODEL CCXL02
Extension Adapter (CCXLA02) (optional)

Choose how data is displayed and obtain easy-to-read management reports with up to two years of data for:

- Accumulated operation time (min.)
- Accumulated thermo-ON time (min.)
- Average air intake temperature of indoor units and outdoor units
- Average setting temperature
- Average zone controller sensor temperature (may not be available depending on zone controller settings)

VRF Central Touchscreen Controller

With Remote Access Software (included) and Energy Calculation Software - Tenant Metering (Add-on). Easily control VRF systems in large, commercial properties with the Hitachi Central Touchscreen Controller. Enjoy accurate, easy tenant billing feature with the optional Energy Calculation Software (CCSE01).

The intuitive user interface makes monitoring systems a breeze. Colors and icons enable quick identification and monitoring of commonly checked items such as:

- Room name
- Run/stop
- Mode
- Temperature
- Fan speed
- Louver
- Current status icon
- Air intake temperature

Compatible with the H-LINK II	Control up to 2,560 indoor units	Control up to 2,048 VRF groups	Customize to meet your needs	Up to 15 Extension Adapters (CCXLA02) can be connected to a system	External input: 4 (Level or pulse)

*See model details for specifics

NETWORK ADAPTERS

Johnson Controls VRF Smart Gateway

The VRF Smart Gateway enables unprecedented control of Hitachi VRF system components through fast, simple integration into the Facility Explorer® BAS. Complete system data is available for all components in the system.

MODEL CBN02

Enhanced features

- **Automatically structures and organizes data** for faster, easier and less costly integration
- **Works over Ethernet** to obtain system data and make it accessible through BAS
- **Brings all BAS capabilities to VRF components** including User Interface, Global Search, schedules, reporting and offline configuration
- **BACnet® compatible**
- **Information conforms to BAS conventions** for quick adoption
- **Wi-Fi accessibility** enables 24/7 monitoring and control of equipment from laptops, tablets and smartphones

SMART EQUIPMENT Johnson Controls

LONWorks® Adapter

- **Supports up to 64 Remote Control Groups**
- **Supports up to 160 Indoor Units** with a variety of network variables on a per indoor unit basis
- **Control points include:** Run/Stop, Operation Mode, Fan Speed, Temperature Setpoint, Prohibit Zone Controller Functions
- **Monitoring points include:** Run/Stop Status, Operation Mode Status, Fan Speed Status, Temperature Setpoint, Thermo Status, Alarm Status

MODEL CLW01

Key features

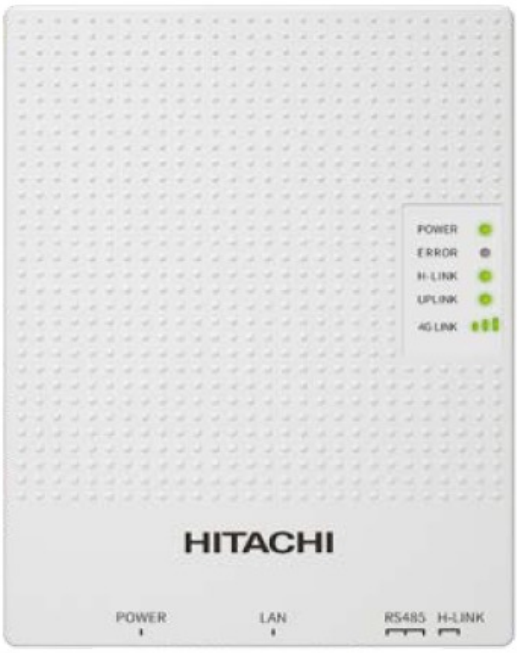
- 24V AC powered
- Connect up to four LonWorks Adapters (CLW01) simultaneously to the same H-LINK II segment
- Connect up to eight Large (CCL01) and/or Mini (CCM01) Central Controllers and/or LONWorks Adapters (CLW01) simultaneously to the same H-LINK II segment
- Support for the following maximum device limits:
  - » 64 refrigerant systems
  - » 160 indoor units
  - » Total of 200 nodes: A combination of up to 160 indoor units and a maximum of 64 outdoor units, not to exceed a total of 200

CONTROLLERS

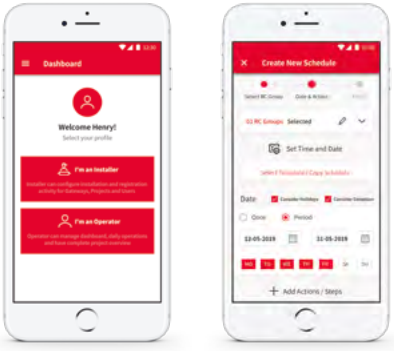
IOT DEVICES

airCloud Gateway

- Easy add-on to new and existing VRF systems. Ideal for small to large-site applications
- Remote access from web and mobile devices (iOS and Android)
- Available functions include remote individual and group control, error history management and schedule setting
- Built-in Over-the-Air software update function supports
- Support internet connection through Ethernet cable and optional 4G unit (coming soon)
- Each gateway can connect up to 80 IDUs and 16 ODUs
- No limitation on number of gateways/sites, number of users or mobile devices/sites
- Once customer purchases airCloud Gateway, they can access download link and receive standard APP free of charge



airCloud Gateway: Model HC-IOTGW

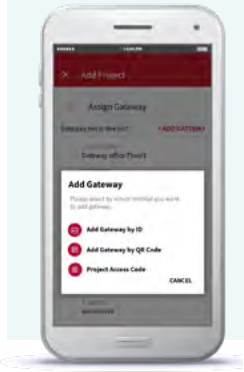


CONTROLLERS

AIRCLOUD PRO™

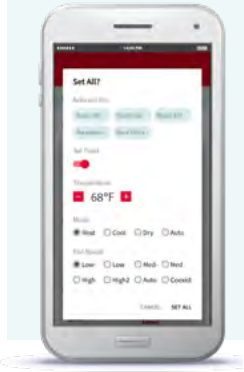
Control is always close at hand

Monitoring and controlling systems is as easy as 1-2-3



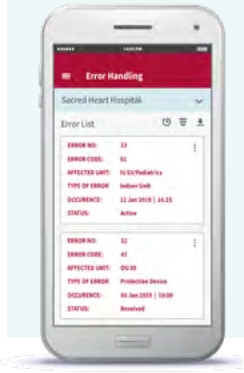
Install and configure equipment quickly. airCloud Pro is a true plug-and-play device.

1



Optimize energy use for comfort and savings through intuitive interface.

2



Monitor, control and troubleshoot with ease 24/7 from your phone or laptop.

3

The app that gives you control on the go

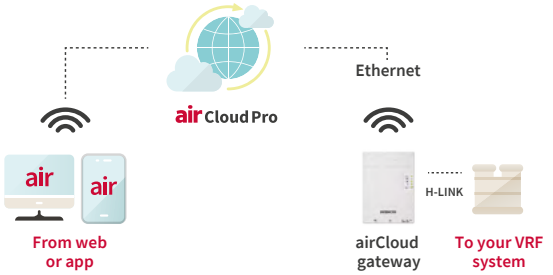
It's never been easier to control Hitachi VRF Systems. Using Internet of Things (IoT) technology, airCloud Pro enables you to manage Hitachi VRF equipment anytime/anywhere. On the web or through a smartphone, control is always close-at-hand.

With airCloud Pro's intuitive interface, you can manage an unlimited number of VRF systems quickly and easily:

- Adjust temperature, fan speed and equipment modes
- Receive error and maintenance alerts
- Set operating schedules
- Add users with customized permissions
- Much more

Set up is simple with true plug-and-play installation. Functionality is always current with new features and updates pushed to the app.

airCloud Pro puts the latest technology to work for you



CONTROLLERS

IOT DEVICES

VRF Cloud Gateway

The new VRF Cloud Gateway by Cool Automation seamlessly integrates VRF systems with smart phones, tablets or any similar wireless device as well as home automaton control systems. This simplifies monitoring and control as VRF systems can be managed through the same interface as lighting, security and other home systems. It can also be used as a stand-alone device with information accessible over the web. It comes with the peace of mind that it has been thoroughly tested by the team at Johnson Controls.

MODEL CMNETS

SMART EQUIPMENT Johnson Controls

Key features

- Monitor and control equipment from a laptop, tablet or smartphone anytime, anywhere
- Manage and control indoor units through simple touchscreen display
- Install and integrate with ease (true plug-and-play device)
- Interface through H-Link and Ethernet Network

H-LINK II NETWORK SYSTEMS

H-LINK II

H-LINK II is a unique communication system that can be used to control multiple outdoor and indoor units from one control point. Its use assists installers and service engineers by simplifying commissioning and service maintenance. For building owners and occupants, it provides great versatility to connect various types of central control options enabling better system management.

The H-LINK II communication system for connection between outdoor and indoor units provides an extended system configuration and improved functions without sacrificing workability and flexibility.

Our proprietary high-performance communication system enables connection of control wiring between indoor and outdoor units, and between a centralized control system and indoor/outdoor units across two or more refrigerant systems.

H-LINK II System	
Max. Number of Refrigerant Groups / System	64
Max. Number of Indoor Units / System	160
Total Number of Devices in the same H-LINK II	200
Total Max. Wiring Length	Total 3,281 ft

Flexible wiring routes

The H-LINK allows for easy installation through a simple daisy-chain configuration. Simply connect to the adjacent units or the terminal block of a centralized control system.

ACCESSORIES

MINI VRF ACCESSORIES

Unit Type	Accessory	Description
Outdoor Units	Drain Kit	For connection of field-supplied drain pipe to drain pan
	Air Flow Guide	Louvers for directing outlet air
	Wind Guard	Protects outlet air from strong winds
	Wind Prevention Tool	Prevents the OU from tipping over
	Snow Protection Hood	Protects OU air outlet from snow
	Toppling Prevention Tool	Prevents OU from tipping over when Snow Protection Hood is in use
	Protection Net	Kit that protects OU heat exchanger
	3-Pin Connector Cable	Kit that provides remote start/stop capability for IU and operating status of IU functions
Indoor Units	3-Pin Connector Cable	Kit (with five sets of 3P Connectors) that provides remote start/stop capability (binary input) to IU and operating status (binary input) of IU functions
	Relay and 3-Pin Connector Kit	Relay and 3-Pin Connector Kit used for input/output signals (ON/OFF, mode, alarm) between central controller and IU
	Remote Temperature Sensor	Remote air temperature sensor
	Air Filter	Washable air filter with mounting flange
	Filter Box	Mounting box for filter
	Air Outlet Shutter Plate	Plate for blocking of air outlet
	Fresh Air Intake Kit	Kit for connection of outside air to the IU
	T-Tube Connecting Kit	Kit for connection of outside air duct to the IU. Requires Fresh Air Intake Kit
	Duct Adapter	Kit for connection of outside air duct to the IU
	Panel with Motion / Radiant Sensors	Air panel with motion and radiant heat sensor. Replaces standard panel
	Motion Sensor Kit	Kit for detection of motion in the area
	Grille for Front Discharge	Grille used for front air outlet from IU
	Strainer Kit	For IU refrigerant circuit
	IR Receiver Kit	Kit for use with wireless controller CIR01
	2-Pin Connector	Printed Board Connector
	Drain Pump Kit	Drain pump kit
	Remote Temperature Sensor	Remote air temperature sensor
	Drain Pump (Wall Mount)	Condensate Pump Kit Capacity - 2.9-3.2 GPH @ 0' Head / 1.2-1.6 GPH @ 33' Head
	3-Pin Connector Cable	Kit (with five sets of 3P Connectors) that provides remote start/stop capability (binary input) to IU and operating status (binary input) of IU functions
	Relay and 3-Pin Connector Kit	Relay and 3-Pin Connector Kit used for input/output signals (ON/OFF, mode, alarm) between central controller and IU

Our professionals are one call away

A dedicated support center for VRF systems distinguishes our approach from others in the industry.

One phone number connects you with the support you need to address any issue.

Phone: 1 (844) 873-4445 | Fax: 1 (972) 915-3860	Dial-In Selections	Email Address
Customer Service	Option 1	BE-VRFCustomerService@jci-hitachi.com
Assistance with using Navigator to order equipment, parts and accessories as well as process credits and returns.		
Technical Support	Option 2	BE-VRFTechSupport@jci-hitachi.com
Support during installation, commissioning and service as well as parts look-up and troubleshooting.		
Warranty	Option 3	BE-VRFWarranty@jci-hitachi.com
Assistance with using Navigator to register warranties, enter claims and obtain extended labor warranty contracts (distribution level only).		
Application and Design	Option 4	BE-VRFApplicationDesign@jci-hitachi.com
Presale assitance with equipment applications and design support as well as use of Selection Navigator tool.		
Training	Option 5	BE-VRFTraining@jci-hitachi.com
Support related to training course offerings and registration.		

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JOHNSON CONTROLS-HITACHI AIR CONDITIONING NORTH AMERICA

CUSTOMER SERVICE
844-873-4445 Option 1
BE-VRFCustomerService@jci-hitachi.com

HITACHI. CERTIFIED QUALITY

Industry certified
Hitachi VRF Systems are Intertek ETL Listed
(Canada and USA), signifying that they comply with the standard of Heating and Cooling Equipment (ANSI/UL 1995 and CAN/CSA C22.2 No. 236-11, 4th Edition, October 14, 2011).
The systems are also certified by the Air Conditioning, Heating & Refrigeration Institute.

**Disclosure: Our ENERGY STAR certification is based on AHRI testings with the M test procedure. Please contact Johnson Controls-Hitachi for any further information.

HITACHI. TOTAL WARRANTY

10 YEARS COMPRESSOR

10 YEARS PARTS

us.hitachiaircon.com

Please scan QR code to download the catalog and more information

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